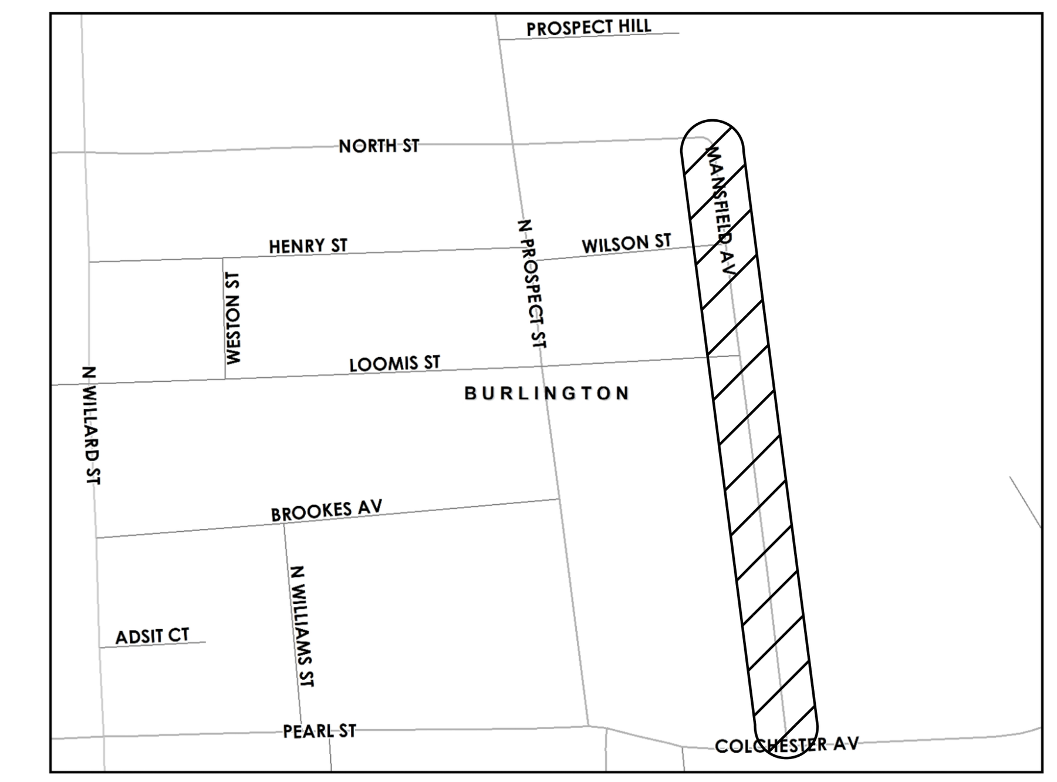
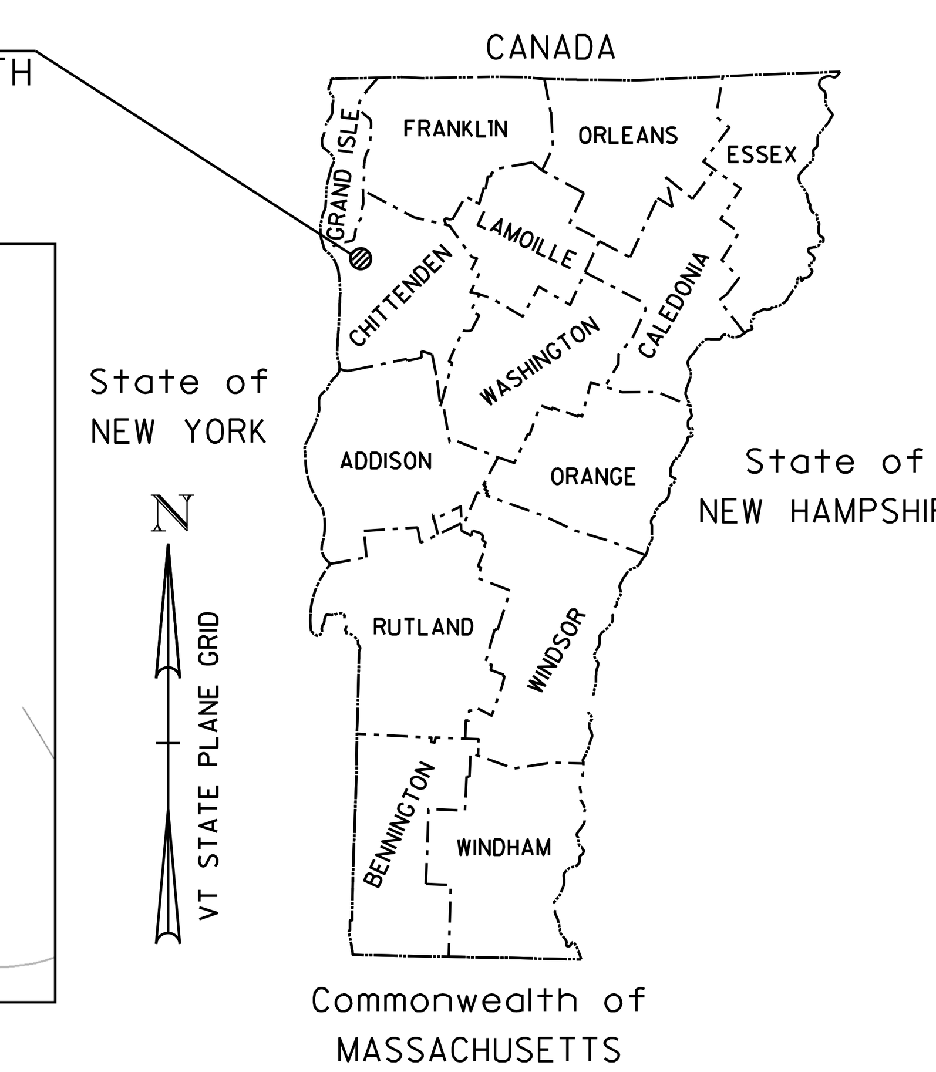
CITY OF BURLINGTON

COUNTY OF CHITTENDEN

MANSFIELD AVE SIDEPATH

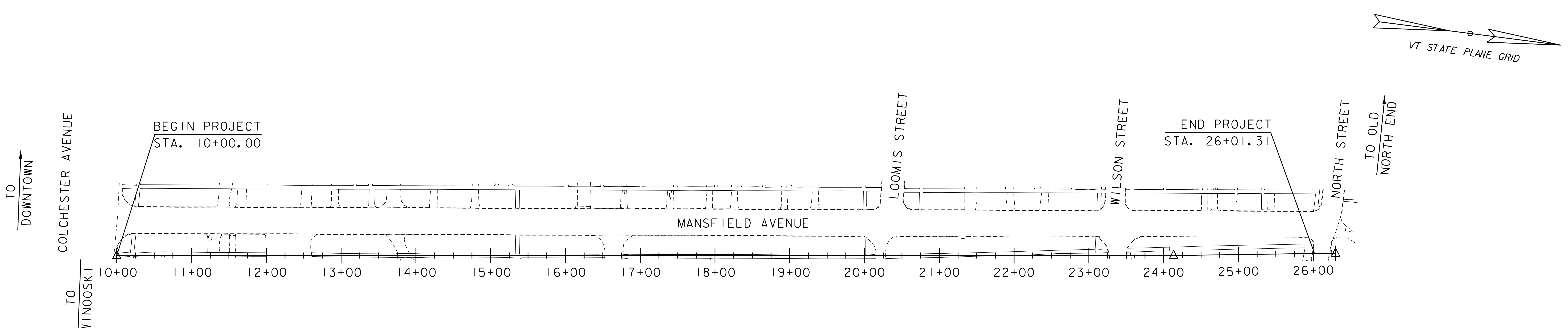




PROJECT LOCATION: BEGINNING AT THE INTERSECTION OF COLCHESTER AVE AND MANSFIELD AVE AND EXTENDING APPROXIMATELY 1,600 LF TO THE NORTH, TO THE NORTH ST MANSFIELD AVE INTERSECTION.

PROJECT DESCRIPTION: WORK PERFORMED UNDER THIS PROJECT INCLUDES THE CONSTRUCTION OF A TEN FOOT WIDE SIDE PATH, TRAFFIC CALMING, DRIVEWAY RECONSTRUCTION AND OTHER INCIDENTALS.

LENGTH OF PROJECT: 1,601.31 LF (0.303 MI)



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE VTrans STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

SURVEYED BY: VERMONT SURVEY & ENGINEERING
SURVEYED DATE: SEPTEMBER 20, 2019

DATUM
VERTICAL: NAD 83
HORIZONTAL: NAVD 85

STATE OF VERMONT
ERIK N. ALLING
NO. 89153
CIVIL
LICENSED
PROFESSIONAL ENGINEER

0 80 160
SCALE IN FEET

Stantec

Stantec Consulting Services Inc.
55 Green Mountain Drive
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
Fax: (802) 864-0165
www.stantec.com

CONTRACT PLANS
2/1/2022

PROJECT MANAGER : O. DARISSE

PROJECT NAME : MANSFIELD AVE SIDEPATH
PROJECT NUMBER : 179450026

INDEX OF SHEETS

STANDARD DRAWINGS

STANDARD	NAME	DATE
B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07/08/2005
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10/14/2005
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10/14/2005
C-3A	SIDEWALK RAMPS	03/23/2018
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03/23/2018
C-10	CURBING	02/11/2008
D-6	REINFORCED CONCRETE DROP INLET W/GRATE (DITCHES)	06/01/1994
D-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	06/01/1994
E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04/07/2020
E-13	INLET PROTECTION DEVICE, TYPE I	04/07/2020
E-15	SILT FENCE	04/07/2020
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/1995
E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	11/04/1999
E-191	PAVEMENT MARKING DETAILS	02/01/1999
E-192	PAVEMENT MARKING DETAILS	10/12/2000
E-193	PAVEMENT MARKING DETAILS	08/18/1995
E-194	BICYCLE LANE PAVEMENT MARKINGS AND SIGN LAYOUT	03/15/2005
T-1	TRAFFIC CONTROL GENERAL NOTES	04/25/2016
T-2	TRAFFIC SIGN GENERAL NOTES	04/25/2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08/06/2012
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/06/2012
T-28	CONSTRUCTION SIGN DETAILS	08/06/2012
T-30	CONSTRUCTION SIGN DETAILS	08/06/2012
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08/06/2012
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08/06/2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01/02/2013
T-56	STANDARD SIGN PLACEMENT	10/26/2015
T-141	BICYCLE LANE PAVEMENT MARKINGS AND SIGN LAYOUT	03/23/2018

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PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: 179450026

FILE NAME: 179450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
INDEX OF SHEETS

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 2 OF 41

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
◎	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEP.
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEP.
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PROJECT DEMARCATION FENCE
- BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6F PROPERTY BOUNDARY
- 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- Ⓗ — HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026legend.dgn
PROJECT LEADER: VTrans
DESIGNED BY: VTrans
CONVENTIONAL SYMBOLOGY LEGEND SHEET

PLOT DATE: 2/3/2022
DRAWN BY: VTrans
CHECKED BY: VTrans
SHEET 3 OF 41

GPS CONTROL POINTS

PLATTSBURGH CORS ARP

PID DI0610
44° 40′ 50.58257" N
073° 27′ 14.30536" W
ELLIP HT = 98.924

STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. LOCATED IN PLATTSBURGH, NY AT THE CLINTON COUNTY NYDOT BUILDING. THE ANTENNAE IS MOUNTED ON A 5/8" SS BOLT, THREADED INTO A CAST ALUMINUM TUBE CAP, THREADED ONTO A 3" ALUMINUM, SCH 40 PIPE, FASTENED WITH 3" SS PIPE CLAMP STRAPS AND SS BOLT IN A 2 IN. SLOTTED STRUT CHANNEL (A SET SCREW IS TAPPED THROUGH PIPE STRAP AND INTO PIPE), FASTENED TO MASONRY BUILDING WITH 3/4 " DROP IN HOLLOW SET ANCHOR BOLTS.

2 COLCHESTER AVE (VSE #7)

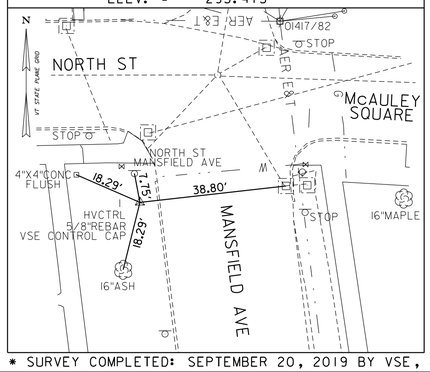
PID AE3730
N = 722756.658
E = 1457768.236
ORTHO HEIGHT = 331.927

DESCRIBED BY UNIVERSITY OF VERMONT 1996 (HGA). GENERAL LOCATION - CITY OF BURLINGTON TO REACH FROM THE WEST END OF THE U.S. ROUTE 2 BRIDGE OVER I-89 AT EXIT 14 IN SOUTH BURLINGTON GO WEST ALONG U.S. ROUTE 2 FOR 0.35 MI (0.56 KM) TO THE INTERSECTION OF EAST AVENUE RIGHT. TURN RIGHT AND GO NORTH ALONG EAST AVENUE FOR 0.7 MI (1.1 KM) TO THE T-INTERSECTION OF COLCHESTER AVENUE. TURN LEFT AND GO WEST ALONG COLCHESTER AVENUE FOR 0.35 MI (0.56 KM) TO THE INTERSECTION OF UNIVERSITY PLACE LEFT AND THE MARK ON THE RIGHT IN A LAWN IN FROMT OF THE FLETCHER ALLEN Y-S TIME CHILDRENS CENTER AT 2 COLCHESTER AVENUE. THE STATION IS LOCATED 50 FT (15.2 M) NORTH OF THE CENTERLINE OF COLCHESTER AVENUE, 250 FT (76.2 M) EASTERLY OF THE INTERSECTION OF COLCHESTER AVENUE AND MANSFIELD AVENUE, 63.4 FT (19.3 M) SOUTHEAST OF THE SOUTHEAST CORNER OF DEWEY HALL, 35.0 FT (10.7 M) SOUTHWEST OF THE SOUTHWEST CORNER OF 2 COLCHESTER AVENUE, 48.6 FT (14.8 M) SOUTH OF THE NORTHWEST CORNER OF AN UNDERGROUND FLAT ROOFED ADDITION OF THE WEST SIDE OF 2 COLCHESTER AVENUE, 14.8 FT (4.5 M) NORTH OF THE CENTERLINE OF A CONCRETE SIDEWALK, 22.8 FT (6.9 M) EAST OF A PAVED DRIVEWAY ON THE EAST SIDE OF DEWEY HALL. THE STATION IS A UVM + SAC SURVEY MARK SET 10 CM BELOW GROUND SURFACE. THE STATION IS ACCESSED THROUGH A WATER BOX GATE VALVE COVER.

TRAVERSE TIES

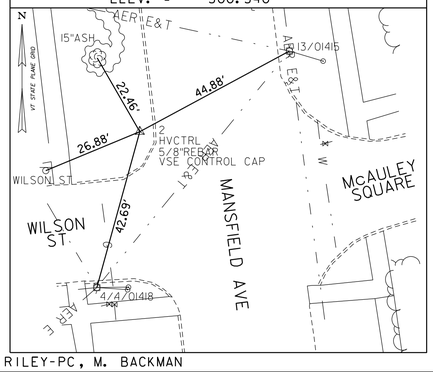
HVCTRL #1

NORTH =	724298.618
EAST =	1457837.887
ELEV. =	293.475



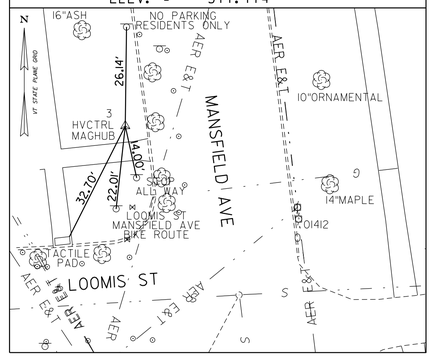
HVCTRL #2

NORTH =	724070.013
EAST =	1457867.050
ELEV. =	300.340



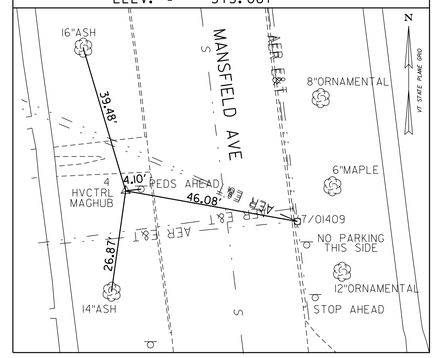
HVCTRL #3

NORTH =	723794.111
EAST =	1457900.008
ELEV. =	311.174



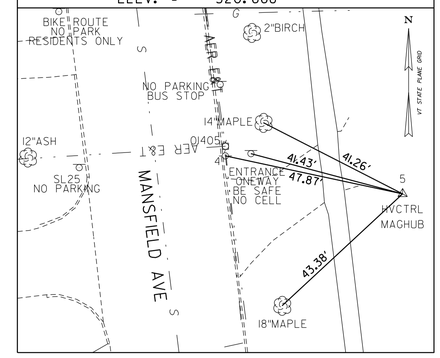
HVCTRL #4

NORTH =	723444.959
EAST =	1457941.997
ELEV. =	315.067



HVCTRL #5

NORTH =	723104.306
EAST =	1458073.994
ELEV. =	320.668

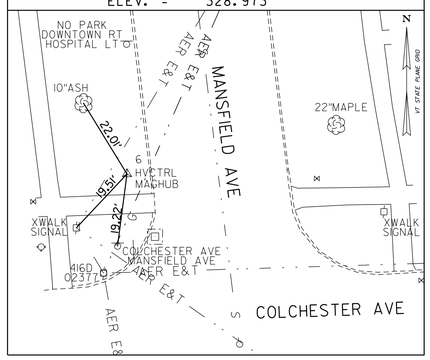


* SURVEY COMPLETED: SEPTEMBER 20, 2019 BY VSE, J. RILEY-PC, M. BACKMAN

TRAVERSE TIES

HVCTRL #6

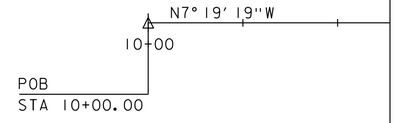
NORTH =	722754.783
EAST =	1458028.714
ELEV. =	328.973



ALIGNMENT TIES

POB = STA. 10+00.00

NORTH =	722729.21
EAST =	1458104.15
ELEV. =	327.95



NORTH =	
EAST =	
ELEV. =	

NORTH =	
EAST =	
ELEV. =	

DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(2011)
ADJUSTMENT	LSQ

VERMONT SURVEY AND ENGINEERING

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026tie.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: VSE
TIE SHEET

PLOT DATE: 2/3/2022
DRAWN BY: VSE
CHECKED BY: VSE
SHEET 4 OF 41

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	2011- ROADWAY	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
1		1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-			
780		780		CY	COMMON EXCAVATION	203.15	8			
10		10		CY	SOLID ROCK EXCAVATION	203.16	EST			
140		140		CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	1			
20		20		CY	TRENCH EXCAVATION OF EARTH	204.20	2			
1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-			
6		6		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	0.2			
80		80		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	3			
550		550		CY	SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	301.25	10			
260		260		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	6			
8		8		CWT	EMULSIFIED ASPHALT	404.65	0.1			
385		385		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	406.35	6			
80		80		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38	4			
1		1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-			
5		5		GAL	WATER REPELLENT, SILANE	514.10	EST			
1		1		EACH	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	604.18	-			
1		1		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-			
460		460		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	3			
310		310		LF	REMOVAL OF EXISTING CURB	616.41	2			
260		260		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	3			
195		195		SF	DETECTABLE WARNING SURFACE	618.30	3			
20		20		LF	PVC SEWER PIPE (18" SDR-35)	628.35	4			
5		5		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-			
20		20		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST			
1500		1500		HR	FLAGGERS	630.15	EST			
1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
1		1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11	-			
530		530		LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111	5			
45		45		LF	6 INCH WHITE LINE, WATERBORNE PAINT	646.2141	5			
145		145		LF	12 INCH WHITE LINE, WATERBORNE PAINT	646.241	3			
50		50		LF	24 INCH STOP BAR, WATERBORNE PAINT	646.261	4			
2	6	8		EACH	LETTER OR SYMBOL, WATERBORNE PAINT	646.301	-			
155		155		LF	CROSSWALK MARKING, WATERBORNE PAINT	646.311	2			
20		20		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	EST			
60		60		LB	SEED	651.15	EST			
140		140		LB	FERTILIZER	651.18	EST			
1		1		TON	AGRICULTURAL LIMESTONE	651.20	EST			
150		150		CY	TOPSOIL	651.35	3			
1		1		LS	EPSC PLAN	653.01	-			
1		1		TON	HAY MULCH	653.10	EST			

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
QUANTITY SHEET 1

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 5 OF 41

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES

1011 - ROADWAY	2011- ROADWAY	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
3		3		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-
3		3		EACH	INLET PROTECTION DEVICE, TYPE II	653.41	-
30		30		LF	SILT FENCE, TYPE I	653.475	EST
1800		1800		LF	PROJECT DEMARCATION FENCE	653.55	EST
30		30		LF	EROSION LOG	653.60	EST
1		1		LS	TREE PROTECTION	656.85	-
138.25	18.75	157		SF	TRAFFIC SIGN, TYPE A	675.20	0.89
605	120	725		LB	W-SHAPE STEEL SIGN POST	675.31	5
23		23		EACH	REMOVING SIGNS	675.50	-
6		6		EACH	RESETTING SIGNS	675.60	-
	3	3		EACH	SPECIAL PROVISION (RAISED CROSSWALK)	900.620	-
1		1		EACH	SPECIAL PROVISION (RELOCATE EXISTING PEDESTRIAN SIGNAL SYSTEM, INTERSECTI	900.620	-
170		170		SY	SPECIAL PROVISION (GREEN PAVEMENT MARKINGS)	900.675	3

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
QUANTITY SHEET 2

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 6 OF 41

GENERAL NOTES

GENERAL PROJECT NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE BASED ON LIMITED INFORMATION. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES WHERE A POTENTIAL CONFLICT EXISTS SHALL BE VERIFIED IN THE FIELD WITH EXPLORATORY EXCAVATION AS REQUIRED PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. PAYMENT OF EXPLORATORY EXCAVATION SHALL BE MADE UNDER ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY. CONTRACTORS MUST CONTACT "DIG SAFE" AT 1(888)344-7233 [1(888)DIG-SAFE] AND TOWN UTILITY DEPARTMENTS BEFORE EXCAVATING, DRILLING OR DRIVING SIGN POSTS. ALL UTILITY CONFLICTS AND REQUIRED RELOCATIONS SHALL BE REPORTED TO THE RESIDENT ENGINEER AND THE UTILITY COMPANY AT MINIMUM ONE WEEK PRIOR TO RELOCATIONS BEING REQUIRED .VT GAS, GREEN MOUNTAIN POWER AND CONSOLIDATED COMMUNICATIONS WILL RELOCATE THEIR UNDERGROUND UTILITIES AS NECESSARY. THE CONTRACTOR WILL BE RESPONSIBLE FOR RELOCATING SEWER AND WATER SERVICES AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES DUE TO FAILURE TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION ACTIVITIES.

2. CARE SHALL BE TAKEN TO AVOID DAMAGE TO NEARBY FENCES, DRIVEWAYS, BUILDINGS, MONUMENTS, IRON PINS, AND ANY OTHER APPURTENANCES DURING CONSTRUCTION. DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

3. IF PROPERTY INCLUDING BUT NOT LIMITED TO IRON PINS, FENCES, BUILDINGS, MONUMENTS, ETC. NEEDS TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, CONTRACTOR SHALL SURVEY AND DOCUMENT EXACT EXISTING LOCATION AND RESET IN THE SAME LOCATION UPON COMPLETION OF WORK. THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNER AS REQUIRED. PROPERTY SHALL BE RESET TO ITS ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER. PROPERTY MONUMENTS SHALL BE SET BY A LICENSED LAND SURVEYOR, LICENSED IN THE STATE OF VERMONT. COST TO COMPLETE THIS WORK SHALL BE INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

4. CONTRACTOR SHALL PROVIDE AT LEAST TWO WEEKS NOTICE TO ADJACENT TENANTS AND PROPERTY OWNERS AND BUSINESSES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL INFORM PROPERTY OWNER OF WORK TO BE COMPLETED AND SHALL WORK WITH PROPERTY OWNER TO MAINTAIN ACCESS TO PROPERTY AT ALL TIMES. COST TO COMPLETE THIS WORK SHALL BE INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

5. CONTRACTOR SHALL RESTORE PROPERTY IN AN ACCEPTABLE MANNER SATISFACTORY TO THE ENGINEER IN ACCORDANCE WITH SECTION 107 OF THE 2018 STANDARD SPECIFICATIONS FOR CONSTRUCTION. TOPSOIL, SEED, FERTILIZER, LIMESTONE AND MULCH SHALL BE PAID PER THEIR RESPECTIVE PAY ITEMS. ANY OTHER WORK OR MATERIALS NECESSARY SHALL BE INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

6. CONTRACTOR SHALL USE BURLINGTON PUBLIC WORKS SEED MIX.

7. PAYMENT FOR ANY SAW CUTTING SHALL BE INCIDENTAL TO ITEM 203.15.

8. ALL EXISTING CURB SHALL BE RETAINED, IN PLACE, UNLESS OTHERWISE NOTED.

9. ALL EXISTING DRAINAGE STRUCTURES SHALL BE RETAINED, IN PLACE, UNLESS OTHERWISE NOTED.

10. TREE STUMPS AND TREES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AS DIRECTED ON THE PLANS. THIS WORK SHALL BE PAID AS ITEM 201.10.

11. TREE ROOTS ENCOUNTERED WITHIN EXCAVATION AREAS SHALL BE SAWN CLEANLY AND REMOVED. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY ARBORIST. THE CONTRACTOR SHALL NOTIFY THE CITY ARBORIST, V.J. COMAI (VCOMAI@BURLINGTONVT.GOV) , AT LEAST ONE WEEK PRIOR TO EXCAVATION NEAR ANY PROTECTED TREE. THIS WORK SHALL BE INCIDENTAL TO ITEM 656.85, TREE PROTECTION.

12. EXISTING SIDEWALK TO BE REMOVED SHALL BE PAID AS ITEM 203.15, COMMON EXCAVATION.

PAVING NOTES:

13. PAVEMENT PATCHING FOR CURB CONSTRUCTION SHALL MATCH THE DEPTH OF EXISTING PAVEMENT. PAVEMENT SHALL BE BITUMINOUS CONCRETE PAVEMENT, TYPE III, PAID AS ITEM 406.38 HAND-PLACED BITUMINOUS MATERIAL, DRIVES. ALL DRIVES ARE TO BE PAVED FROM CURB LINE TO THE SIDEWALK AND FROM BACK OF SIDEWALK TO THE RIGHT-OF-WAY. PAVEMENT LIFTS SHALL NOT EXCEED 2-1/2". DRIVES SHALL BE SAW CUT AND COLD PLANED AS NECESSARY TO INSTALL NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT. SAW CUTTING SHALL BE PAID INCIDENTAL TO ITEM 406.38 HAND-PLACED BITUMINOUS MATERIAL, DRIVES. SEE STANDARD DRAWING B-71 FOR DRIVE DETAILS.

14. CONTRACTOR IS REQUIRED TO OBTAIN AN EXCAVATION PERMIT, AT NO COST TO THE CONTRACTOR, FROM THE CITY'S EXCAVATION INSPECTOR PRIOR TO BEGINNING CONSTRUCTION.

15. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AT A RATE OF 0.025 GAL/SY AND ON THE FACE OF CURB OR SAWCUT. EMULSIFIED ASPHALT SHALL MEET THE REQUIREMENTS OF SECTION 404 AND SHALL BE PAID AS ITEM 404.65, EMULSIFIED ASPHALT.

SIDEWALK NOTES:

16. THE REMOVAL OF ALL EXISTING SIDEWALK SHALL BE PAID AS ITEM 203.28, EXCAVATION OF SURFACES AND PAVEMENTS.

17. SIDEWALK RAMPS AND DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH VTRANS STD DRAWINGS C-3A, C-3B. ALL SIDEWALK RAMPS SHALL BE PORTLAND CEMENT CONCRETE, 5" THICK AND PAID AS ITEM 618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH. DETECTABLE WARNING SURFACES SHALL BE CAST IRON. DETECTABLE WARNING SURFACES PAID AS 618.30.

18. SIDEWALK PANELS SHALL BE CONSTRUCTED AS 10'x10' PANELS, WITH EXPANSION JOINTS CONSTRUCTED EVERY 10', AND DUMMY JOINTS USED TO DIVIDE THE SIDEWALK INTO 5'x5' PANELS. WITH THE EXCEPTION OF SPACING, ALL JOINTS SHALL BE CONSTRUCTED AS SPECIFIED IN THE VTRANS 2018 SPECIFICATIONS FOR CONSTRUCTION SECTION 618.03(e).

20. ALL CONCRETE SIDEWALK SHALL BE SEALED WITH 2 COATS OF CHEMSTOP WB SILOXANE/SILANE WATER REPELLENT, PER THE MANUFACTURER'S SPECIFICATIONS. PRODUCT SHALL BE APPLIED NO SOONER THAN 7 DAYS AFTER INSTALLATION AND PAID AS ITEM 514.10, WATER REPELLENT, SILANE.

19. THE CONTRACTOR SHALL VERIFY ALL SIDEWALK RAMPS MEET PROWAG COMPLIANCE PRIOR TO INSTALLATION OF ASPHALT AND CONCRETE FOR THE SIDEPATH AND RAMPS.

EROSION PREVENTION AND SEDIMENT CONTROL

20. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) CONSISTS OF INLET PROTECTION AND TEMPORARY AND PERMANENT STABILIZATION OF ALL DISTURBED SURFACES. EPSC PRACTICES SHALL COMPLY WITH THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL DATED AUGUST 2006. INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EACH CATCH BASIN WITHIN THE PROJECT SITE. EPSC REQUIREMENTS SHALL BE GOVERNED BY SUBSECTION 105.23 OF THE 2018 VTRANS STANDARD SPECIFICATIONS.

21. FOR CONTRACT ITEM 653.01, EPSC PLAN, THE CONTRACTOR SHALL SUBMIT AN EPSC PERMIT APPLICATION WITH THE CITY UPON AWARD OF THE CONTRACT. MAINTENANCE OF EPSC ITEMS THROUGHOUT THE DURATION OF CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO ITEM 653.01, EPSC PLAN, AND OTHER EPSC ITEMS IN THIS CONTRACT.

22. THE CONTRACTOR SHALL KEEP PAVEMENT SURFACES SWEPT CLEAN AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL CONTROL DUST DURING CONSTRUCTION OPERATIONS. THIS WORK SHALL BE INCIDENTAL TO ALL BID ITEMS UNDER THIS CONTRACT.

TEMPORARY TRAFFIC CONTROL

23. THE FOLLOWING TRAFFIC CONTROL INFORMATION IS INTENDED TO BE A GENERAL OUTLINE FOR HOW THE WORK SHOULD PROCEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SITE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS. THIS RESPONSIBILITY INCLUDES PROVIDING A PLAN DETAILING THE USE AND PLACEMENT OF SIGNS, CHANNELING DEVICES, ARROW PANELS, FLAGGERS AND UNIFORMED TRAFFIC OFFICERS (UTO'S) DURING LANE CLOSURES. ALL TRAFFIC CONTROL DETAILS MUST BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE MUTCD AND VAOT STANDARDS T-1, T-2, T-10, T-30, T-35 AND T-36. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 641.11, TRAFFIC CONTROL, ALL-INCLUSIVE. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY FOR REVIEW A MINIMUM OF 14 DAYS PRIOR TO START OF CONSTRUCTION

24. TWO-WAY TRAFFIC MUST BE MAINTAINED BETWEEN THE HOURS OF 7:00-9:00 AM AND 4:00-6:00 PM. FLAGGER-CONTROLLED ONE WAY ALTERNATING TRAFFIC WILL BE ALLOWED BETWEEN 9:00 AM AND 4:00 PM. UNIFORMED TRAFFIC OFFICER REQUIRED FOR WORK THAT IMPACTS THE SIGNAL AT MANSFIELD AVE. AND COLCHESTER AVE.

25. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THESE PROJECT PLANS, APPLICABLE VAOT STANDARD DRAWINGS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009, AND ITS LATEST REVISIONS, OR AS DIRECTED BY THE ENGINEER.

26. THE CONTRACTOR MUST PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALERTING FIRE DISPATCH OF DISRUPTIONS TO TRAFFIC EACH MORNING PRIOR TO BEGINNING WORK.

27. SIGNS SHALL ONLY BE VISIBLE TO MOTORISTS AT THE TIMES WHEN THE MESSAGE IS PERTINENT, I.E. A "FLAGGER AHEAD" SIGN SHALL ONLY BE VISIBLE TO MOTORISTS WHEN THE FLAGGER IS ACTUALLY PRESENT PERFORMING THEIR DUTIES.

28. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES. MAINTAIN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. ACCESS TO RESIDENTIAL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK WILL BE COORDINATED WITH THE OWNER. COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL ACCESSES SHALL ALSO BE KEPT FREE OF WORK AND TRAFFIC CONTROLLED BY UTO'S OR FLAGGERS AS REQUIRED.

29. ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMMODATE PEDESTRIAN TRAVEL AT ALL TIMES. THIS CAN INCLUDE, BUT IS NOT LIMITED TO A DEDICATED PEDESTRIAN ESCORT, SIGNAGE AND CONED OFF WALKING AREAS WITHIN CLOSED LANES. FLAGGERS SHALL NOT BE USED AS PEDESTRIAN ESCORTS. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TEMPORARY TRAFFIC CONTROL ZONE, THE TEMPORARY FACILITIES SHALL BE DETECTABLE, SHALL MAINTAIN ADA STANDARDS AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY. PAYMENT WILL BE INCLUDED IN THE UNIT PRICE FOR ITEM 641.11 TRAFFIC CONTROL, ALL-INCLUSIVE.

TEMPORARY TRAFFIC CONTROL

30. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS. EXISTING SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED OR REMOVED.

31. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MUTCD, AND AS OUTLINED IN THE SPECIAL PROVISIONS.

32. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.

33. RETROREFLECTIVE SHEETING SHALL BE AS NOTED ON VAOT STANDARD T-1 AND IN SUBSECTION 750.08

34. AS THE CONSTRUCTION OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 500 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.

35. BARRELS/DRUMS SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH. REFLECTORIZED CONES OR DRUMS MAY BE USED TO DELINEATE COMMERCIAL DRIVEWAYS WITHIN THE WORK ZONE.

36. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR ANY SCHOOL BUS STOPS WITHIN THE PROJECT LIMITS. THE LOCATIONS OF SCHOOL BUS STOPS SHALL BE COORDINATED WITH THE LOCAL SCHOOL TRANSPORTATION COORDINATOR. FLAGGERS SHALL BE STATIONED AT THESE LOCATIONS DURING THE TYPICAL MORNING PICK UP AND AFTERNOON DROP OFF WHILE WORK IS BEING PERFORMED NEAR THESE BUS STOPS. THE CONTRACTOR SHALL ACCOMMODATE THE MATER CHRISTI SCHOOL'S PICK UP AND DROP OFF PROCESSES WITHIN THE SCHOOL ZONE AND THE PROJECT AREA.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL

37. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.

38. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

39. WHEN SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

40. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

41. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

42. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

43. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.

44. TPAR PLAN, IMPLEMENTATION AND MAINTENANCE WILL BE CONSIDERED INCIDENTAL TO ITEM 641.11, TRAFFIC CONTROL, ALL-INCLUSIVE.

Stantec

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PROJECT NUMBER: 179450026

FILE NAME: 179450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
GENERAL NOTES SHEET

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 7 OF 41

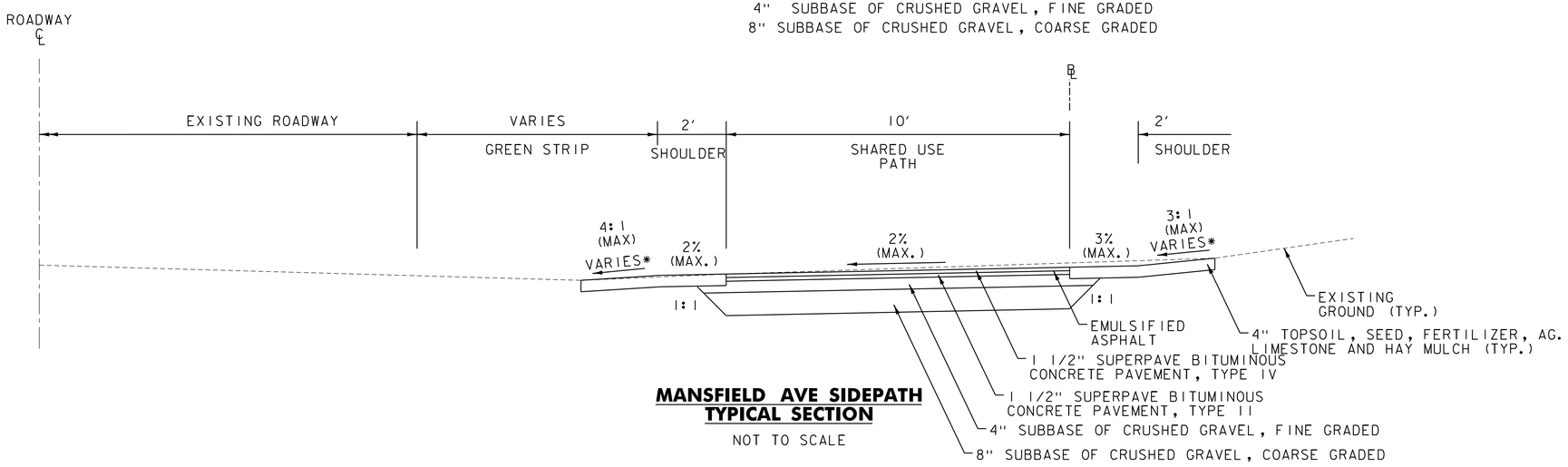
TYPICAL SECTIONS

SIDEPATH CONSTRUCTION (BITUMINOUS):
1 ½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE IV)
1 ½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE II)
4" SUBBASE OF CRUSHED GRAVEL, FINE GRADED
8" SUBBASE OF CRUSHED GRAVEL, COARSE GRADED

SIDEPATH CONSTRUCTION (CONCRETE):
5" PORTLAND CEMENT CONCRETE SIDEWALK
4" SUBBASE OF CRUSHED GRAVEL, FINE GRADED
8" SUBBASE OF CRUSHED GRAVEL, COARSE GRADED

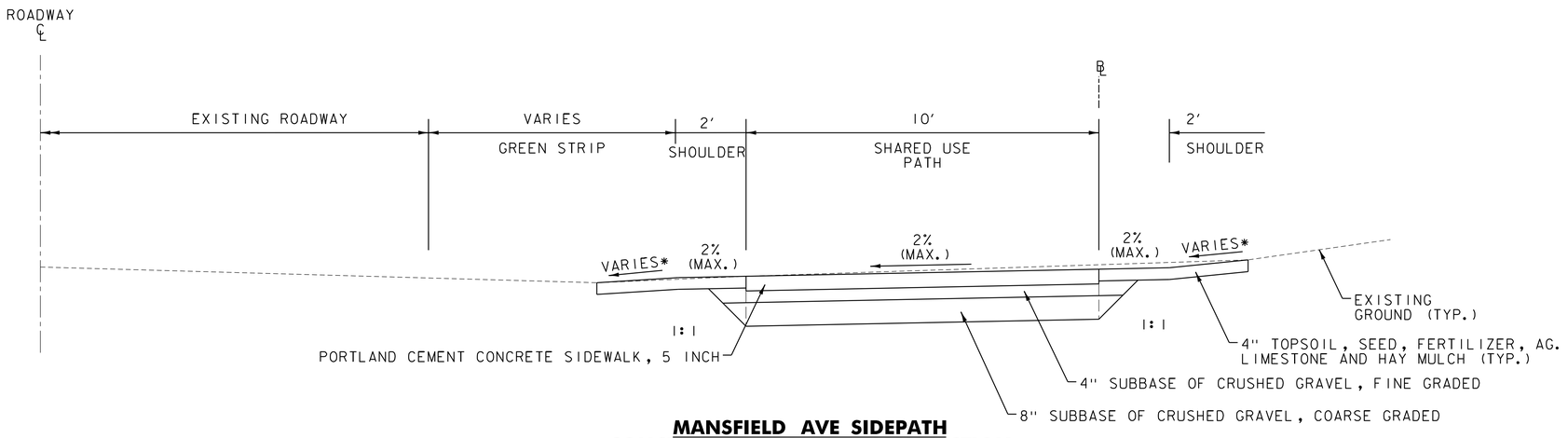
MATERIAL ITEM	THICKNESS/TOLERANCE
PAVEMENT =	+/- 1/4" (TOTAL DEPTH)
SUBBASE =	1" (TOTAL DEPTH)

NOTE:
SUBBASE MATERIAL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED PER SECTION 301 OF THE VTRANS 2018 STANDARDS FOR CONSTRUCTION.



MANSFIELD AVE SIDEPATH
TYPICAL SECTION

NOT TO SCALE



MANSFIELD AVE SIDEPATH
CONCRETE SIDEWALK TYPICAL SECTION

NOT TO SCALE

* SEE PLAN AND CROSS SECTION SHEETS FOR LIMITS AND CROSS SLOPE GRADES

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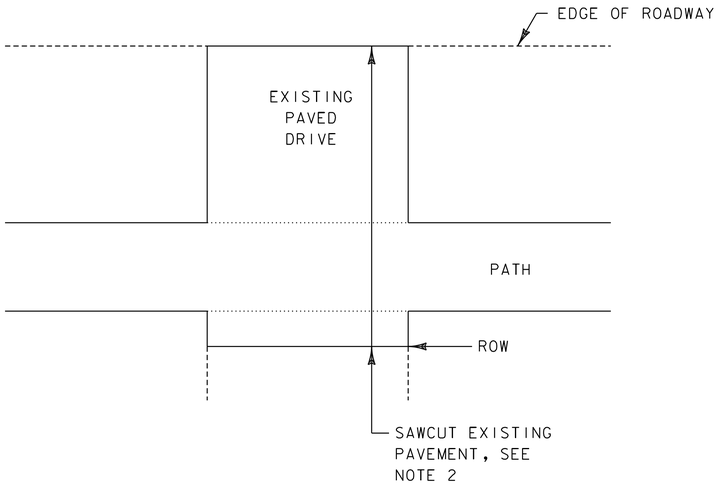
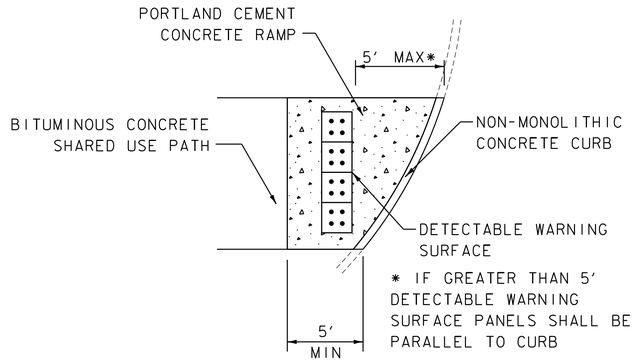
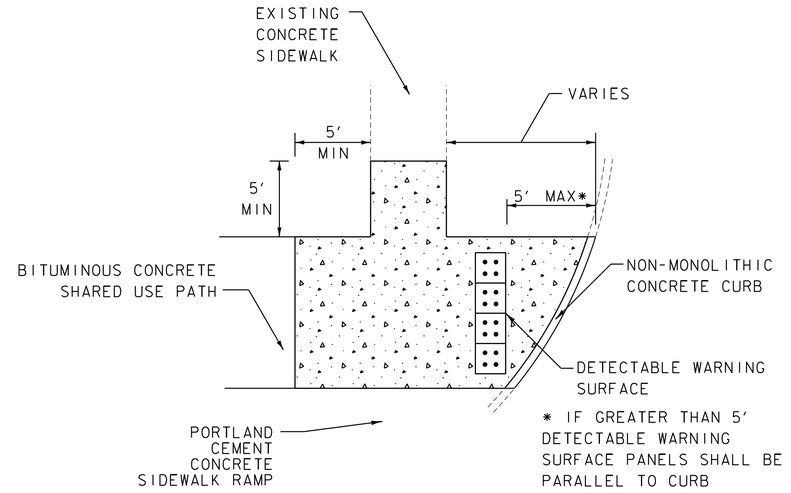
TYPICAL SECTIONS SHEET	SHEET 8 OF 41



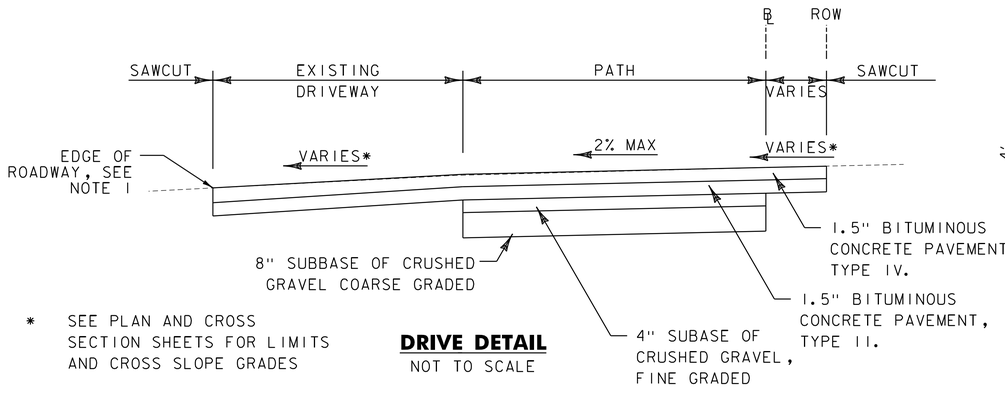
PAVING LIMITS FOR DRIVES
NOT TO SCALE



SHARED USE PATH RAMP PLAN (SIDEPATH ONLY)
NOT TO SCALE

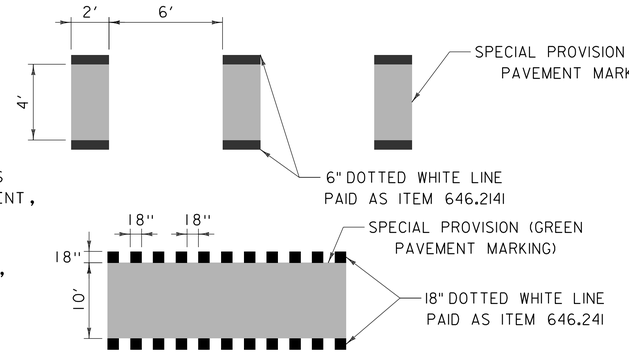


SHARED USE PATH RAMP PLAN (INTERSECTING SIDEWALK)
NOT TO SCALE

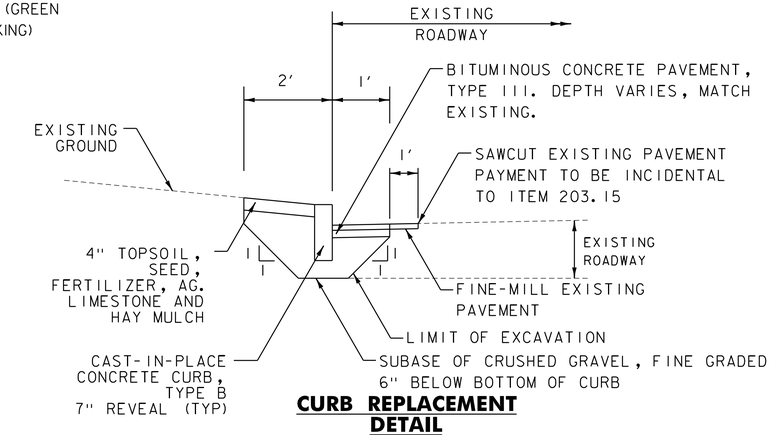


* SEE PLAN AND CROSS SECTION SHEETS FOR LIMITS AND CROSS SLOPE GRADES

DRIVE DETAIL
NOT TO SCALE



SPECIAL PROVISION (GREEN PAVEMENT MARKING)
NOT TO SCALE



CURB REPLACEMENT DETAIL
NOT TO SCALE

DRIVE NOTES:

1. PAVE DRIVE TO THE LIMITS OF THE RIGHT OF WAY AND THE EDGE OF ROADWAY AS SHOWN ON PLANS. PAVEMENT SHALL BE PAID AS ITEM 406.38 HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES. SUBBASE MATERIALS TO BE PAID AS 301.25 & 301.26.
2. ALL SAWCUTTING WITHIN DRIVEWAYS SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.15.

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DETAIL SHEET 1

PLOT DATE: 2/3/2022
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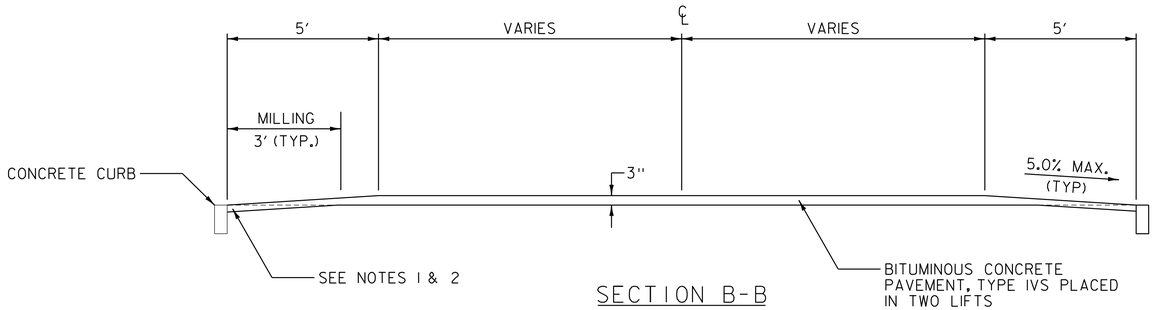
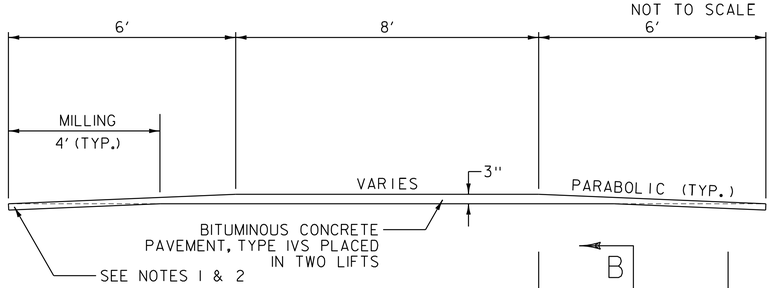


SECTION B-B
NOT TO SCALE



SECTION A-A
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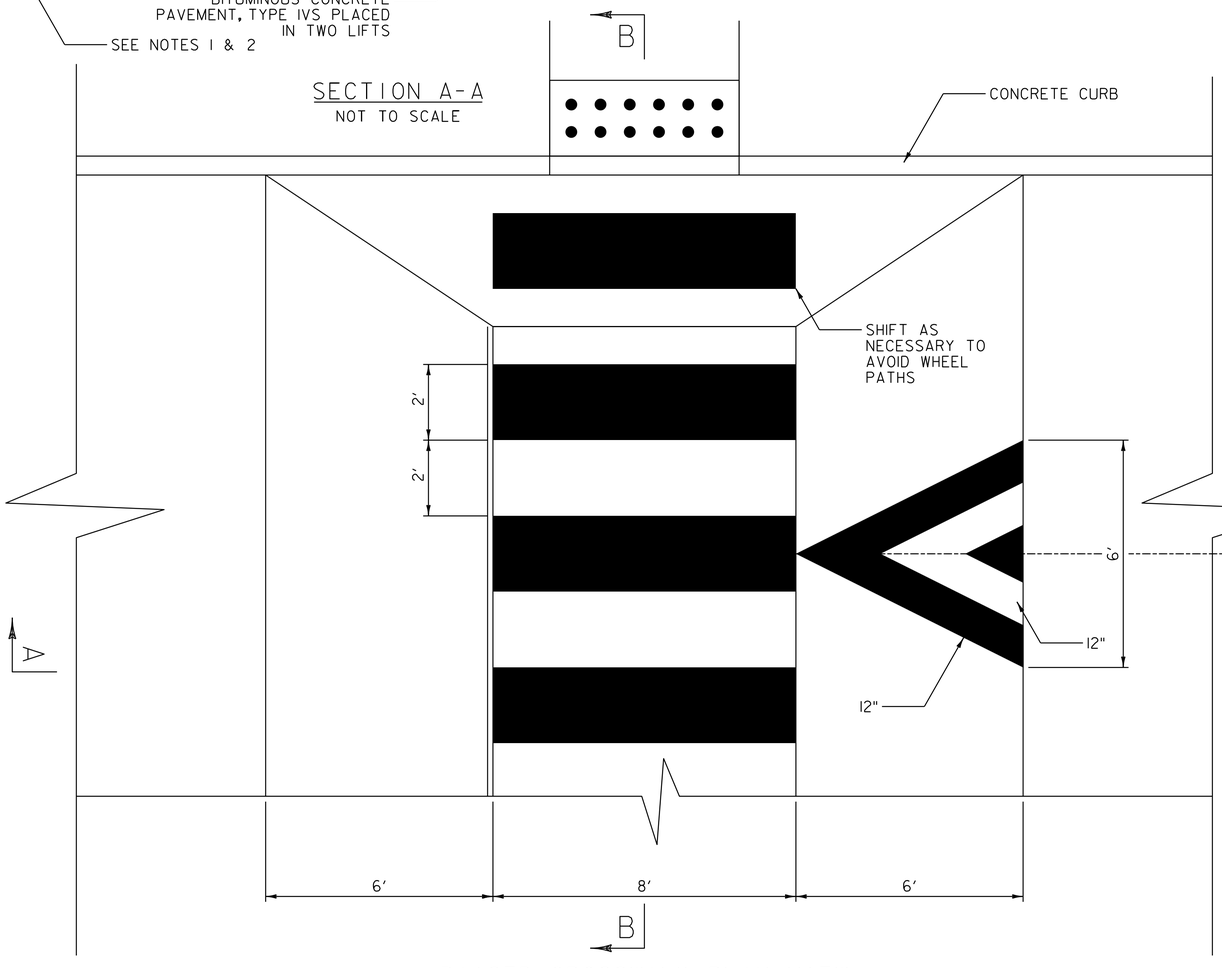
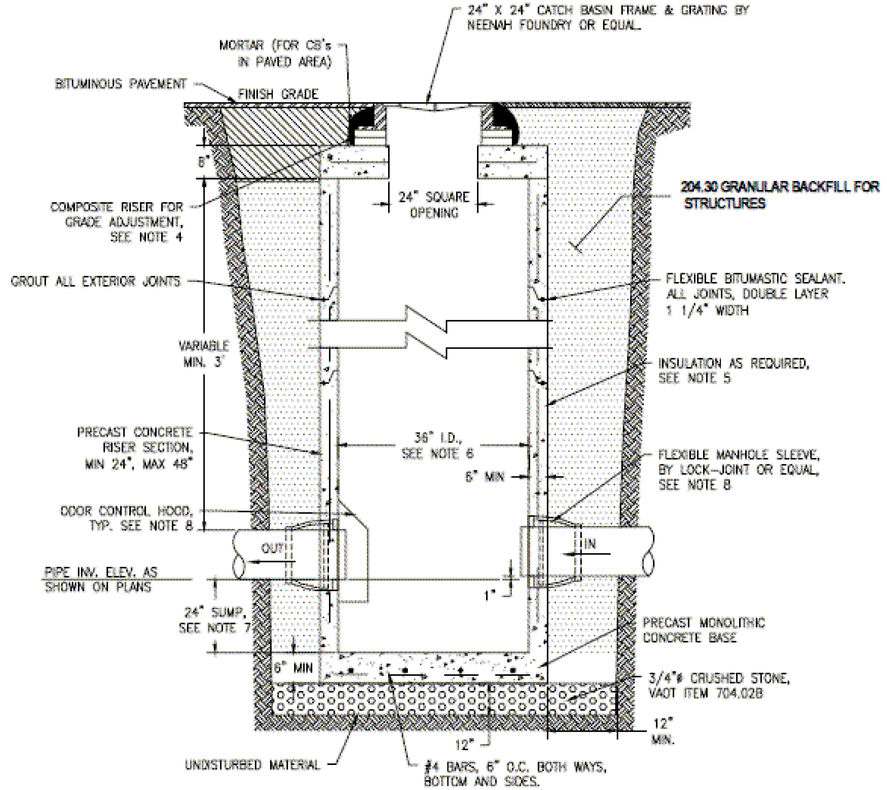


RAISED CROSSWALK PLAN VIEW
NOT TO SCALE

NOTES:

1. RAISED CROSSWALKS TO FOLLOW ROADWAY CROSS SECTION AND PROFILE GRADES.
2. MILL 2" DEPTH OF EXISTING PAVEMENT AT THE CURBLINE OR EDGE OF RAISED CROSSWALK AND ZERO OUT AS SHOWN IN DETAILS THIS SHEET. THEN PLACE NEW PAVEMENT USED FOR RAISED CROSSWALK PER DETAILS. MILLING AND EMULSIFIED ASPHALT FOR THIS WORK SHALL BE PAID INCIDENTAL TO ITEM 900.620 (RAISED CROSSWALK).
3. CROSSWALK MARKINGS TO BE PAID AS ITEM 646.311, CROSSWALK MARKING, WATERBORNE PAINT.
4. CHEVRON ARROWS TO BE PAID AS ITEM 646.301, LETTER OR SYMBOL, WATERBORNE PAINT. EACH APPROACH SHALL BE COUNTED AS ONE SYMBOL.



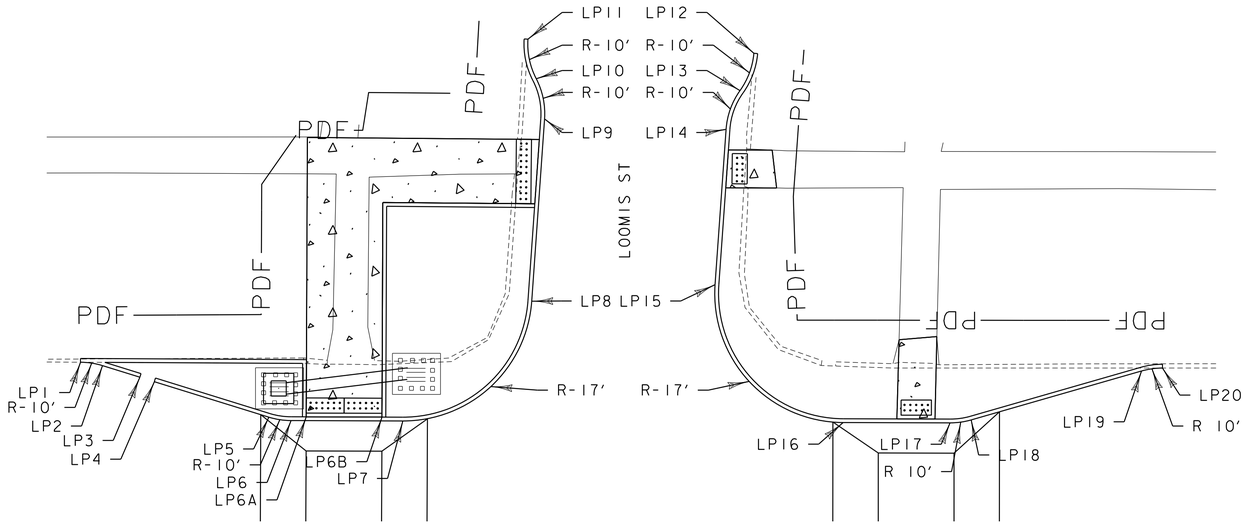
CATCH BASIN NOTES

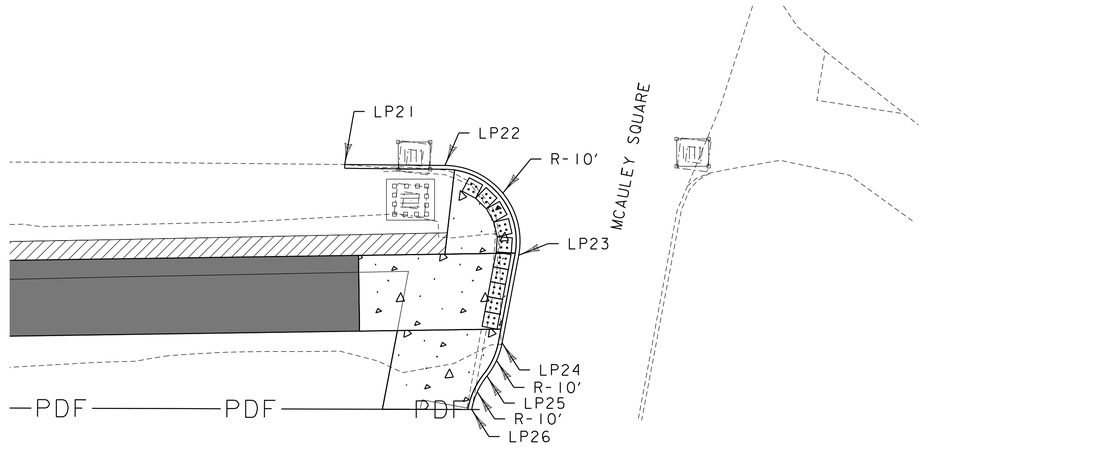
1. PROVIDE FLANGE GRATE AND FRAME, BY NEENAH FOUNDRY OR EQUAL.
2. CONCRETE=4,000 psi; STEEL REBAR=40,000 psi
3. STRUCTURES SHALL BE DESIGNED TO WITHSTAND H20 LOADING.
4. COMPOSITE RISERS ARE TO BE "PRO-RING" MANUFACTURED BY CRETEX, OR EQUAL.
5. IF EXTERNAL DIAMETER OF CATCH BASIN STRUCTURE IS WITHIN 5-FEET OF WATER MAIN, INSULATION OF CATCH BASIN STRUCTURE IS REQUIRED. INSULATION SHALL BE "STYROFOAM" BRAND SM EXTRUDED POLYSTYRENE FOAM INSULATION MANUFACTURED BY DOW CHEMICAL OR EQUAL.
6. SHALLOWER SUMPS SHALL BE APPROVED BY THE WATER RESOURCES DEPARTMENT PRIOR TO INSTALLATION.
7. ODOR CONTROL HOODS SHALL BE INSTALLED ON ALL OUTLET PIPES WHERE CATCH BASIN STRUCTURE IS CONNECTING TO THE COMBINED SEWER SYSTEM. ODOR CONTROL HOODS SHALL BE PPF CB HOODS BY EJ PRESCOTT, THE ELIMINATOR BY KLEANSTREAM OR EQUAL.
8. FLEXIBLE MANHOLE SLEEVE CONNECTIONS SHALL BE PROVIDED FOR ALL CATCH BASIN STRUCTURES WHERE THE CATCH BASIN LATERAL IS BEING REPLACED IN CONJUNCTION WITH THE REPLACEMENT OF THE STRUCTURE. IN THE EVENT THAT THE CATCH BASIN LATERAL IS NOT BEING REPLACED CUTTING AND CORING THE CATCH BASIN STRUCTURE IN THE FIELD IS ACCEPTABLE. NOTE THAT ALL ELEVATION MINIMUMS ARE TO BE PROVIDED AS NOTED IN EITHER INSTALLATION TYPE.

CATCH BASIN DETAIL
NOT TO SCALE

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026frm.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. WAITE
DESIGNED BY: C. WAITE	CHECKED BY: E. ALLING
DETAIL SHEET 2	SHEET 10 OF 41





LAYOUT POINT TABLE

LAYOUT POINT	DESCRIPTION	NORTHING	EASTING	STATION	OFFSET	ELEV. *
LP 1	MATCH EXISTING/BEGIN RADIUS	723678.33	1457920.17	19+64.83	61.52	312.12
LP 2	END RADIUS	723681.27	1457920.24	19+67.74	61.07	312.09
LP 3	END CURB	723686.36	1457921.13	19+72.67	59.55	312.07
LP 4	BEGIN CURB	723688.33	1457921.47	19+74.58	58.96	312.06
LP 5	BEGIN RADIUS	723703.92	1457924.19	19+89.70	54.27	312.00
LP 6	END RADIUS	723706.88	1457924.27	19+92.63	53.82	311.98
LP 7	BEGIN RADIUS	723721.52	1457922.44	20+07.38	53.77	311.83
LP 8	END RADIUS	723736.39	1457904.59	20+24.40	69.57	311.53
LP 9	BEGIN RADIUS	723735.01	1457880.50	20+26.10	93.64	310.98
LP 10	END RADIUS/BEGIN RADIUS	723733.24	1457875.38	20+25.00	98.95	310.84
LP 11	END RADIUS/MATCH EXISTING	723731.48	1457870.34	20+23.90	104.17	N/A
LP 12	MATCH EXISTING/BEGIN RADIUS	723761.31	1457868.38	20+53.74	102.32	N/A
LP 13	END RADIUS/BEGIN RADIUS	723760.13	1457873.50	20+51.91	97.38	310.60
LP 14	END RADIUS	723758.95	1457878.81	20+50.06	92.27	310.72
LP 15	BEGIN RADIUS	723760.13	1457899.34	20+48.62	71.76	311.22
LP 16	END RADIUS	723779.21	1457915.23	20+65.51	53.56	310.80
LP 17	BEGIN RADIUS	723793.21	1457913.48	20+79.63	53.51	310.44
LP 18	END RADIUS	723795.94	1457912.74	20+82.43	53.90	310.36
LP 19	BEGIN RADIUS	723817.42	1457903.46	21+04.92	60.36	309.46
LP 20	END RADIUS	723820.12	1457902.73	21+07.68	60.75	309.38

* ELEVATION GIVEN IS AT ROADWAY OR SIDEWALK SURFACE

LAYOUT POINT TABLE

LAYOUT POINT	DESCRIPTION	NORTHING	EASTING	STATION	OFFSET	ELEV. *
LP 21	MATCH EXISTING	724293.88	1457878.48	25+81.01	22.03	293.30
LP 22	BEGIN RADIUS	724307.03	1457876.92	25+94.24	21.71	292.97
LP 23	END RADIUS	724318.19	1457887.44	26+03.80	9.72	293.15
LP 24	BEGIN RADIUS	724317.50	1457899.20	26+01.45	1.83	293.46
LP 25	END RADIUS/BEGIN RADIUS	724316.06	1457903.80	25+99.38	6.17	293.54
LP 26	END RADIUS/MATCH EXISTING	724314.63	1457908.44	25+97.30	10.56	293.62

* ELEVATION GIVEN IS AT ROADWAY OR SIDEWALK SURFACE

0 10 20
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: 179450026

FILE NAME: 179450026detail.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
CURB LAYOUT DETAIL SHEET

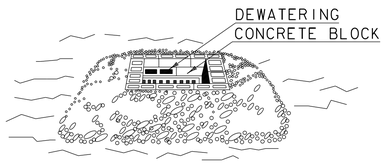
PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 11 OF 41

BURLINGTON PUBLIC WORKS SPECIAL MIX				
	LBS/1000 SF			
WEIGHT	BROADCAST	HYDROSEED	NAME	GERM
30.0%	1.5	3.0	SHORTSTOP TURF- TYPE TALL FESCUE	90%
20.0%	1.0	2.0	JASPER RED FESCUE	90%
20.0%	1.0	2.0	CREEPING RED FESCUE	85%
20.0%	1.0	2.0	FIESTA II PERENNIAL RYE GRASS	90%
10.0%	0.5	1.0	WASHINGTON KENTUCKY BLUE GRASS	85%
100%	5	10		

SOIL AMENDMENT GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10/20/10 500 LBS/AC	FOLLOW MANUFACTURER'S PROCEDURES	PELLETIZED 1 TON/AC	FOLLOW MANUFACTURER'S PROCEDURES

CONSTRUCTION GUIDANCE

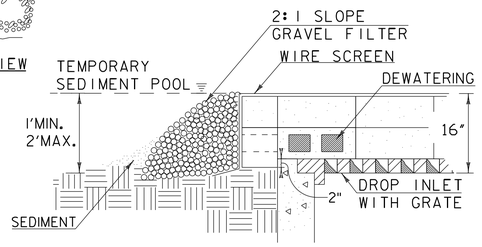
1. SEED MIX: THE BURLINGTON PUBLIC WORKS MIX SHALL NOT BE USED IN WETLANDS OR ANY WATERS OF THE STATE OF VERMONT.
2. SEED MIX: USE ONLY AS INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. SEED MIX: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.



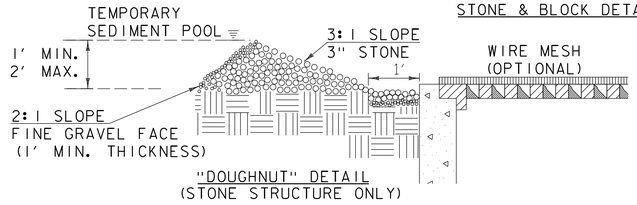
STONE & BLOCK PLAN VIEW

SYMBOL

NOT TO SCALE



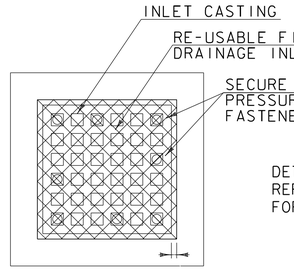
STONE & BLOCK DETAIL



"DOUGHNUT" DETAIL
(STONE STRUCTURE ONLY)

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL ½"- ¾" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1' THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA 1 ACRE



SYMBOL

NOT TO SCALE

DETAIL SHOWN FOR FLAT INLET GRATES ONLY.
REFER TO MANUFACTURER'S RECOMMENDATIONS
FOR INSTALLATIONS ON CURB OR ROUND INLETS.

EXTEND 1" MINIMUM TO 3"
MAXIMUM FROM EDGE OF GRATE

CONSTRUCTION SPECIFICATIONS

1. FILTERS SHALL RETAIN ALL CONSTRUCTION DEBRIS AND SHALL RETAIN OR OTHERWISE CONTROL MOST OF THE SEDIMENT PRODUCED BY CONSTRUCTION OPERATIONS.
2. IF CLOGGING OCCURS, INLETS SHALL BE ABLE TO BE EASILY UNCLOGGED BY BROOMING THE SIDES AND TOP OF THE FILTER.
3. INSTALLED FILTERS SHALL BE RESISTANT TO TRAFFIC DAMAGE, INCLUDING TRAFFIC BY STREET CLEANING MACHINES.
4. FILTER UNITS SHALL BE BIODEGRADABLE AND MAY OFTEN BE RE-USED.
5. INSTALL FILTER UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. MINIMUM NUMBER OF ANCHORS PER FILTER UNIT: 7 FOR CURB INLETS, 8 FOR FLAT GRATES.
7. INSPECT ALL INSTALLED FILTER UNITS AFTER EVERY RAIN.
8. INSPECT ALL INSTALLED FILTER UNITS PRIOR TO INITIATING CONSTRUCTION ACTIVITIES FOR THE DAY IF RAIN PERSISTS OVERNIGHT.
9. IF, UPON VISUAL INSPECTION, 50% OR MORE OF FILTER FABRIC SURFACE AREA IS INUNDATED WITH SEDIMENT OR FILTER FABRIC IS CLOGGED, CONTRACTOR SHALL BROOM COLLECTED MATERIAL OFF FILTER UNIT SURFACES AND AWAY FROM EDGES.
10. REMOVE SEDIMENT AND DEBRIS COLLECTED AROUND FILTER UNITS. DISPOSE OF COLLECTED SEDIMENT AND DEBRIS OFF-SITE IN ACCORDANCE WITH THE VERMONT AGENCY OF NATURAL RESOURCES, SOLID WASTE MANAGEMENT RULES.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	STONE & BLOCK DROP INLET PROTECTION
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).	

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

ORIGINALLY DEVELOPED BY STANTEC	INLET PROTECTION DEVICE, TYPE II
NOTES: THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR PAY ITEM 653.41	

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026frm.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. WAITE
DESIGNED BY: C. WAITE	CHECKED BY: E. ALLING
EPSC DETAIL SHEET	SHEET 12 OF 41

EXISTING SIDEWALK REMOVAL OUTSIDE OF PROPOSED PATH

EXISTING SIDEWALK

PROPOSED CONCRETE SIDEWALK

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
STA. 10+29 TO 15+00, LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 10+00 TO 10+29, LT

DETECTABLE WARNING SURFACE
STA. 10+02, 5' LT
STA. 10+23, 28' LT

ADJUST ELEVATION OF VALVE BOX
STA. 10+27, 22' LT
STA. 12+18, 10' LT

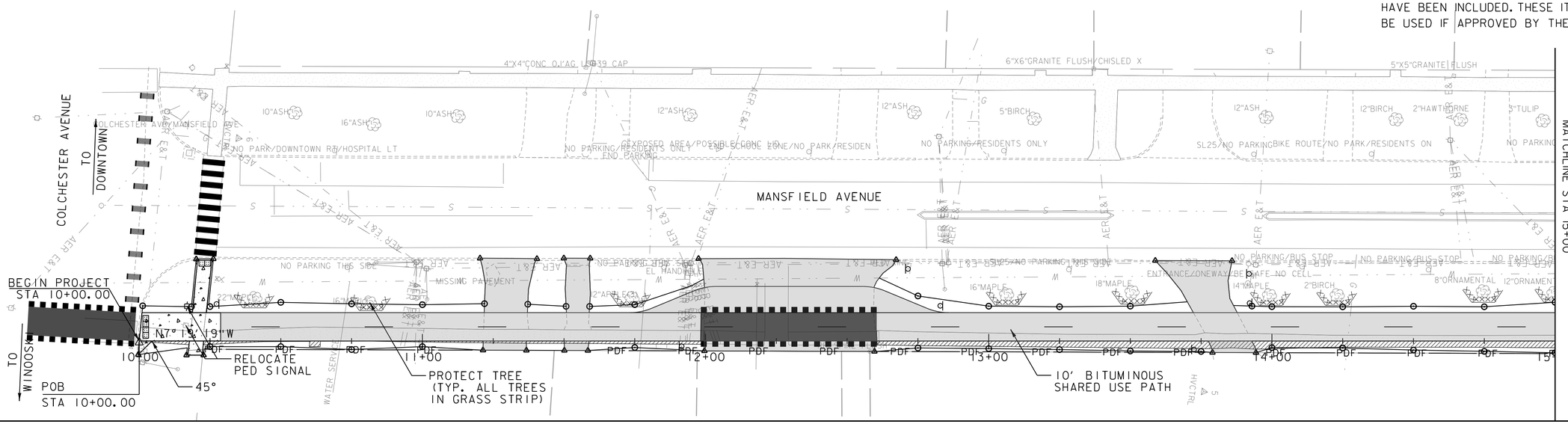
PROJECT DEMARCATION FENCE
AS SHOWN

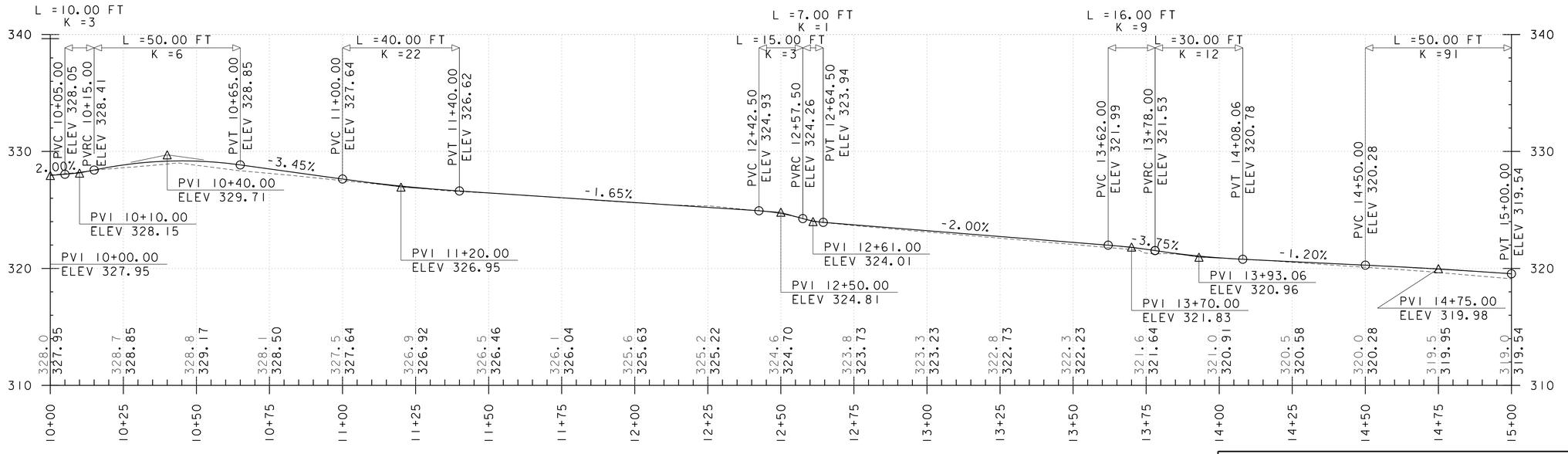
SPECIAL PROVISION (RELOCATE EXISTING PEDESTRIAN SIGNAL SYSTEM, INTERSECTION)
STA. 10+16, 5.5' LT TO STA. 10+17, 12.3' LT

VT STATE PLANE GRID

NOTE:

1. A QUANTITY OF ITEMS 653.475 AND 653.60 HAVE BEEN INCLUDED. THESE ITEMS SHALL ONLY BE USED IF APPROVED BY THE ENGINEER.





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5
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0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE. SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026bdr_planprofile.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. WAITE
DESIGNED BY: C. WAITE	CHECKED BY: E. ALLING
PLAN AND PROFILE SHEET 1	SHEET 13 OF 41

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
STA. 15+00 TO 21+00, LT
HAND-PLACED BITUMINOUS CONCRETE PAVEMENT, DRIVES
STA. 19+65 TO 20+26, LT
STA. 19+94 TO 20+14, LT
STA. 20+48 TO 21+08, LT

PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE
STA. 19+91, LT

REHAB, DI'S, CB'S, OR MH'S, CLASS I
STA. 20+09, 60' LT

CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 19+65 TO 20+26, LT
STA. 19+94 TO 20+14, LT
STA. 20+48 TO 21+08, LT

REMOVAL OF EXISTING CURB
STA. 19+65 TO 20+23, LT
STA. 20+54 TO 21+08, LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 15+33 TO 15+38, LT & RT
STA. 19+94 TO 20+04, LT
STA. 19+94 TO 20+25, LT
STA. 20+50 TO 20+57, LT
STA. 20+73 TO 20+78, LT
STA. 20+73 TO 20+78, LT

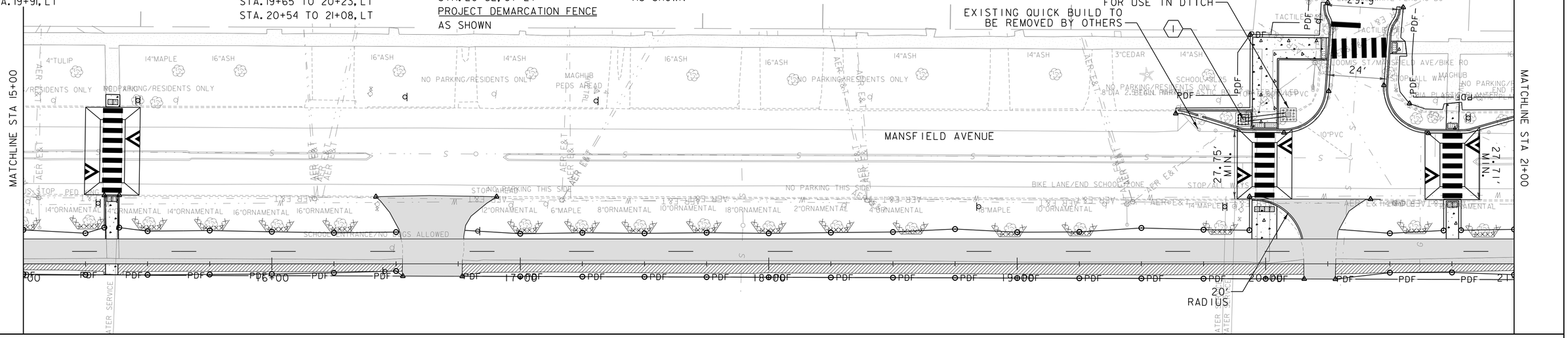
ADJUST ELEVATION OF VALVE BOX
STA. 20+52, 67' LT
PROJECT DEMARCATION FENCE
AS SHOWN

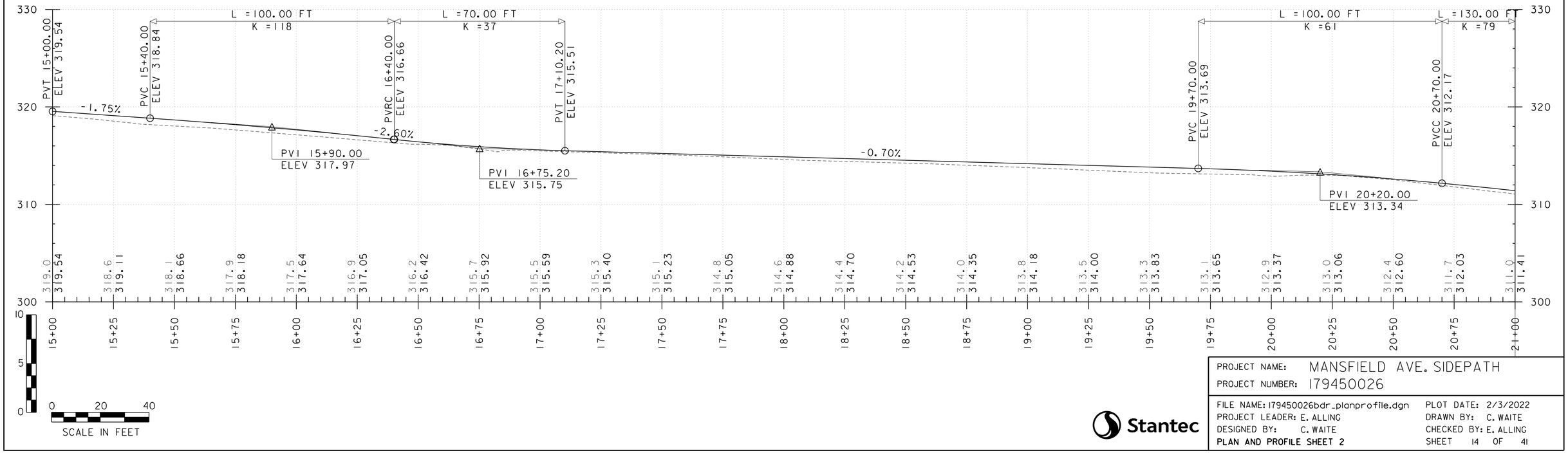
DETECTABLE WARNING SURFACE
STA. 15+36, 26' LT
STA. 20+00, 22' LT
STA. 20+00, 56' LT
STA. 20+23, 87' LT
STA. 20+52, 87' LT
STA. 20+75, 55' LT
STA. 20+75, 24' LT

INLET PROTECTION DEVICE, TYPE I
AS SHOWN

(1) STA 19+91, LT. INSTALL NEW PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE FOR USE IN DITCH. INSTALL 18' OF 18" SDR-35 PVC PIPE (PAID AS ITEM 628.35) TO EXISITING STRUCTURE AT 20+09, LT. CORING OF EXISTING STRUCTURE SHALL BE INCIDENTAL TO ITEMS 604.18 AND 628.35.

RIM ELEV: 311.91 FT
INV OUT: 309.76 FT





Stantec

PROJECT NAME:	MANSFIELD AVE. SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026bdr_planprofile.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. WAITE
DESIGNED BY: C. WAITE	CHECKED BY: E. ALLING
PLAN AND PROFILE SHEET 2	SHEET 14 OF 41

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
STA. 21+00 TO 23+04, LT
STA. 23+66 TO 25+83, LT

HAND-PLACED BITUMINOUS CONCRETE PAVEMENT, DRIVES
STA. 23+26 TO 23+50, LT & RT
STA. 25+81 TO 25+97, LT & RT

CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 23+02 TO 23+27, LT
STA. 23+50 TO 23+75, LT
STA. 25+81 TO 25+97, LT & RT

REMOVAL OF EXISTING CURB
STA. 23+14 TO 23+28, LT
STA. 23+51 TO 23+68, LT
STA. 25+81 TO 25+97, LT & RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 23+04 TO 23+27, LT
STA. 23+50 TO 23+66, LT & RT
STA. 25+83 TO 26+02, LT & RT

DETECTABLE WARNING SURFACE
STA. 23+12, 20' LT
STA. 23+23, 5' LT
STA. 23+53, 5' LT
STA. 26+00, 11' LT

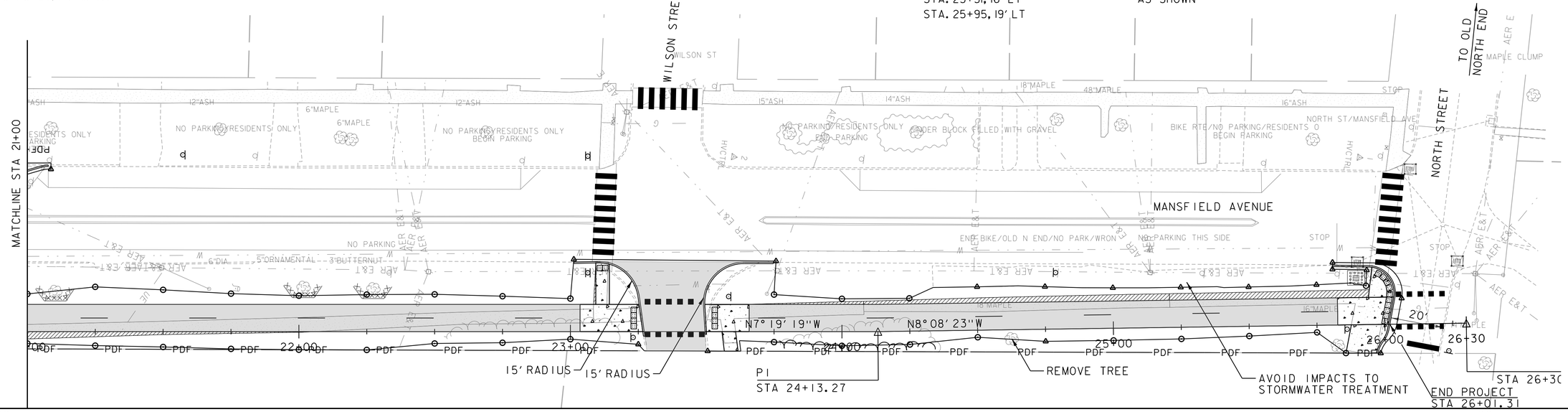
ADJUST ELEVATION OF VALVE BOX
STA. 23+51, 16' LT
STA. 25+95, 19' LT

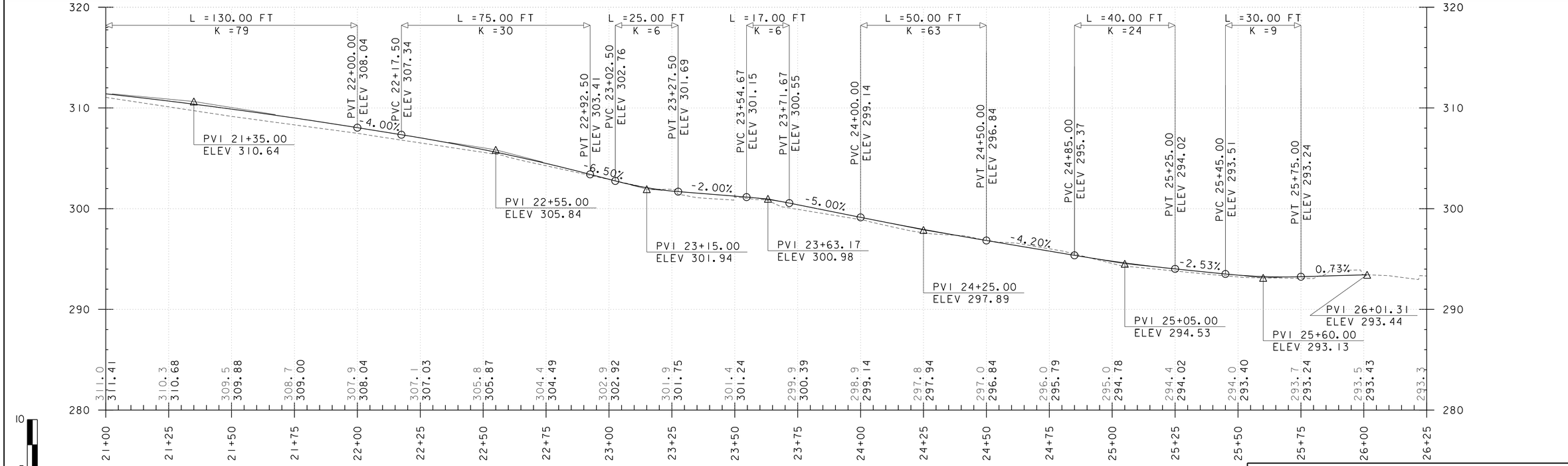
PROJECT DEMARCATION FENCE
AS SHOWN

INLET PROTECTION DEVICE, TYPE I
AS SHOWN

INLET PROTECTION DEVICE, TYPE II
AS SHOWN

VT STATE PLANE GRID
N





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SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE. SIDEPATH
PROJECT NUMBER: 179450026

FILE NAME: 179450026bdr_planprofile.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
PLAN AND PROFILE SHEET 3

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 15 OF 41

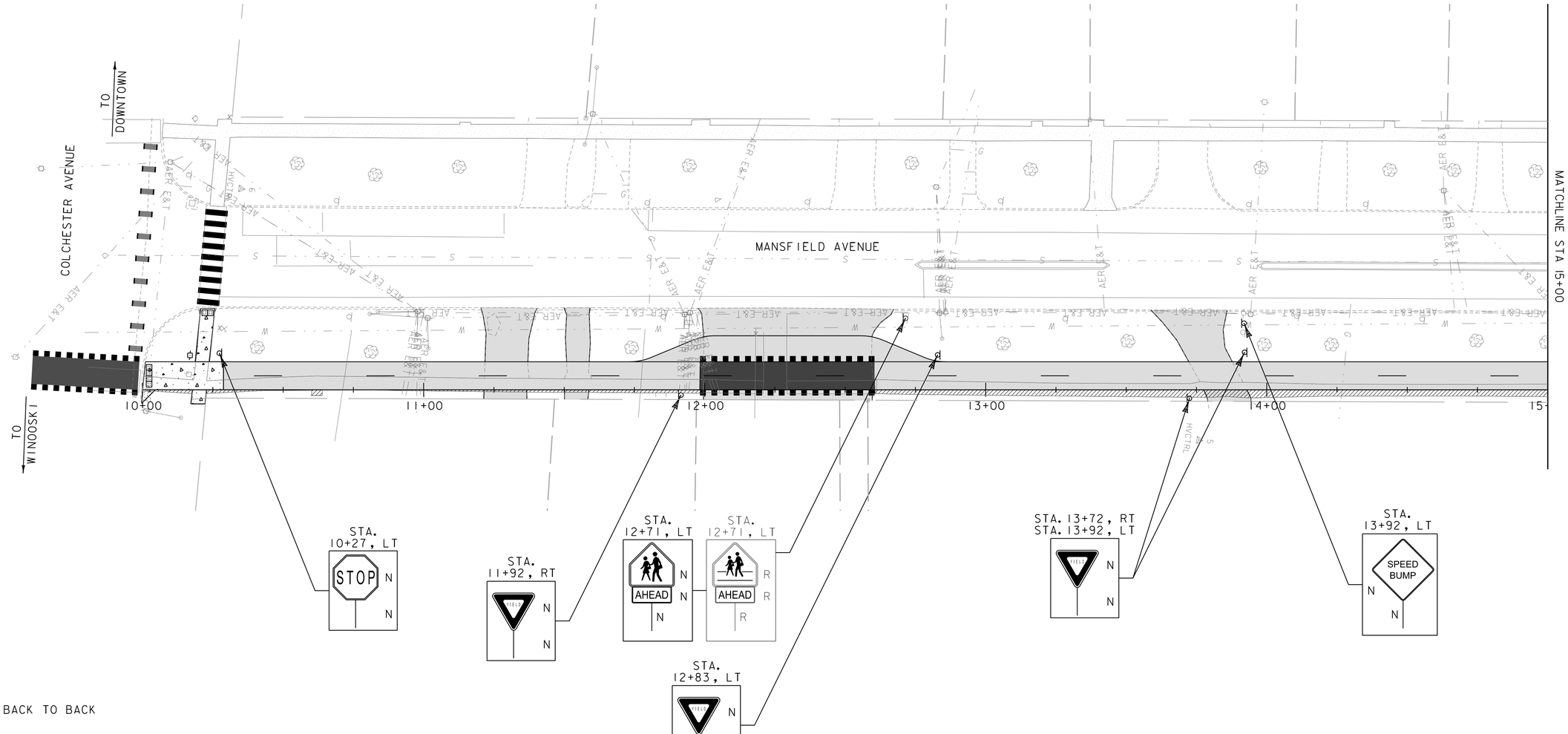
4 INCH YELLOW LINE, WATERBORNE PAINT (DASHED)
STA. 10+19 TO 15+00

CROSSWALK MARKING, WATERBORNE PAINT
STA. 10+25, LT

REMOVING SIGNS
AS SHOWN (2)

SPECIAL PROVISION (GREEN PAVEMENT MARKING)
STA. 9+60 TO 9+98 (SHARED PATH CROSSING)
STA. 9+95 TO 10+05 (BIKE CROSSING)
STA. 11+98 TO 12+61 (SHARED PATH CROSSING)

VT STATE PLANE GRID
N



* MOUNT SIGNS BACK TO BACK

NOTES:

1. ANY SIGN NOT SHOWN ON THE PLANS SHALL BE RETAINED IN PLACE OR AS DIRECTED BY THE ENGINEER.
2. A QUANTITY OF ITEM 646.85 HAS BEEN INCLUDED IN THE CONTRACT. ITS USE SHALL ONLY BE AS NEEDED AND BY DIRECTION OF THE RESIDENT ENGINEER.

LEGEND
N = NEW
R = REMOVE
RET = RETAIN
RES = RESET
R&RES = REMOVE & RESET

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026bdr_sgn.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
SIGNING AND STRIPING SHEET 1

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 16 OF 41

4 INCH YELLOW LINE, WATERBORNE PAINT (DASHED)
STA. 15+00 TO 21+00

24 INCH STOP BAR, WATERBORNE PAINT
STA. 20+32, LT

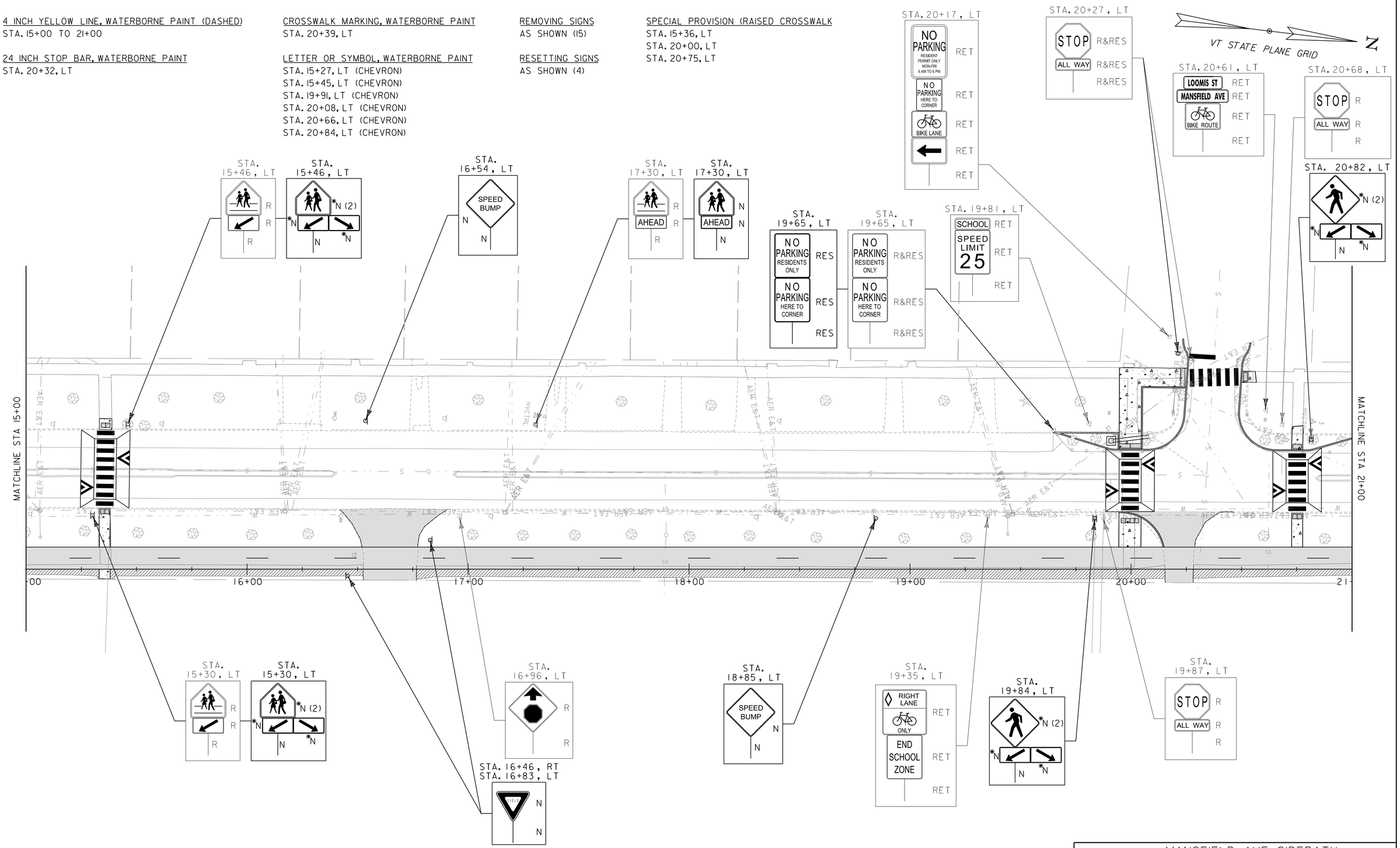
CROSSWALK MARKING, WATERBORNE PAINT
STA. 20+39, LT

LETTER OR SYMBOL, WATERBORNE PAINT
STA. 15+27, LT (CHEVRON)
STA. 15+45, LT (CHEVRON)
STA. 19+91, LT (CHEVRON)
STA. 20+08, LT (CHEVRON)
STA. 20+66, LT (CHEVRON)
STA. 20+84, LT (CHEVRON)

REMOVING SIGNS
AS SHOWN (15)

RESETTING SIGNS
AS SHOWN (4)

SPECIAL PROVISION (RAISED CROSSWALK
STA. 15+36, LT
STA. 20+00, LT
STA. 20+75, LT



* MOUNT SIGNS BACK TO BACK

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LEGEND
N = NEW
R = REMOVE
RET = RETAIN
RES = RESET
R&RES = REMOVE & RESET

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: 179450026

FILE NAME: 179450026bdr_sgn.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
SIGNING AND STRIPING SHEET 2

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING

4 INCH YELLOW LINE, WATERBORNE PAINT (DASHED)
STA. 21+00 TO 23+26
STA. 23+51 TO 26+03

24 INCH STOP BAR, WATERBORNE PAINT
STA. 26+14, 8 FT LT

CROSSWALK MARKING, WATERBORNE PAINT
STA. 23+XX, LT
STA. 23+36, LT
STA. 26+02, LT

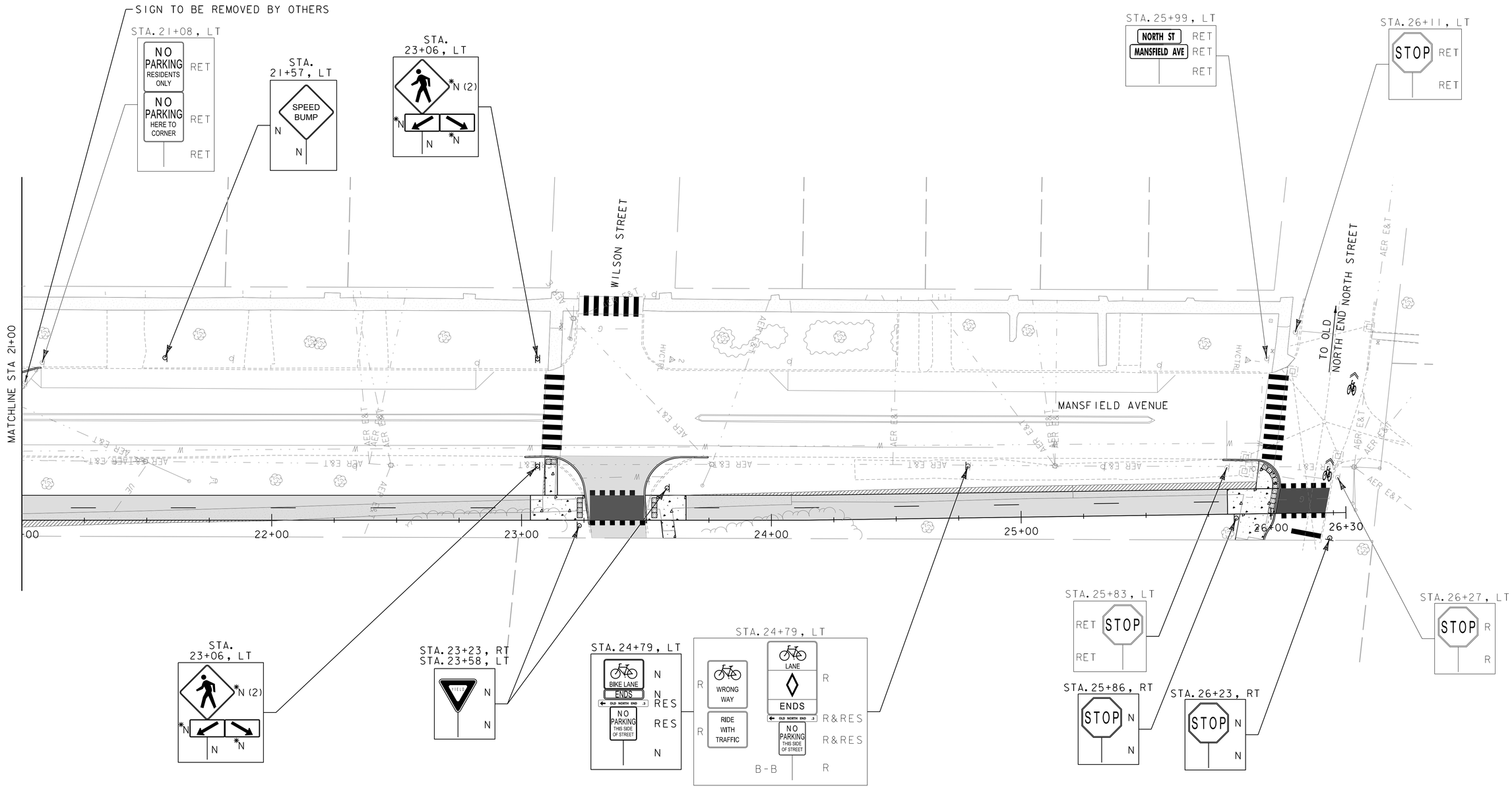
LETTER OR SYMBOL, WATERBORNE PAINT
STA. 26+23, LT (BIKE SYMBOL)
STA. 26+33, LT (BIKE SYMBOL)

SPECIAL PROVISION (GREEN PAVEMENT MARKING)
STA. 23+27 TO 23+50 (SHARED PATH CROSSING)
STA. 26+02 TO 26+22 (SHARED PATH CROSSING)

REMOVING SIGNS
AS SHOWN (6)

RESETTING SIGNS
AS SHOWN (2)

VT STATE PLANE GRID
N



* MOUNT SIGNS BACK TO BACK

NOTE: ANY SIGN NOT SHOWN ON THE PLANS SHALL BE RETAINED IN PLACE OR AS DIRECTED BY THE ENGINEER.

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0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: 179450026

FILE NAME: 179450026bdr_sgn.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
SIGNING AND STRIPING SHEET 3

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 18 OF 41

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																				REMARKS	SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in)			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)					W-SHAPE STEEL				SIGN FRAME REQUIRED		DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
																												FTG. SIZE		WEIGHT	POST SIZE					
												1.12	2.0	3.0	1.88	2.42	3.35			1.3	1.7	1.7	FOUND-ATION	7.6	9.0	10.8	14.6	24"	30"						
STA. 10+27, LT	STOP	1	18	18	1.86						1		X																				FLANGED CHANNEL SIGN POST SHALL BE PAID AS ITEM 675.31, W-SHAPE STEEL SIGN POST (TYP)	RI-1		
STA. 11+92, RT	YIELD	1	18	18	1.10						1		X																					RI-2		
STA. 12+71, LT	AHEAD	1	36	36	6.72						1		X																				FYG	SI-1		
		1	24	12	2.00																													SI6-9P		
STA. 12+83, LT	YIELD	1	18	18	1.10						1		X																					RI-2		
STA. 13+72, RT	YIELD	1	18	18	1.10						1		X																					RI-2		
STA. 13+92, LT	YIELD	1	18	18	1.10						1		X																					RI-2		
STA. 13+92, LT	SPEED BUMP	1	30	30	6.25						1		X																					W17-1		
STA. 15+30, LT		1	36	36	6.72						1		X																				FYG MOUNT BACK TO BACK FYG	SI-1 SI6-7P SI-1 SI6-7P		
		1	21	15	2.19																															
		1	36	36	6.72																															
		1	21	15	2.19																															
STA. 15+46, LT		1	36	36	6.72						1		X																				FYG MOUNT BACK TO BACK FYG	SI-1 SI6-7P SI-1 SI6-7P		
		1	21	15	2.19																															
		1	36	36	6.72																															
		1	21	15	2.19																															
STA. 16+46, RT	YIELD	1	18	18	1.10						1		X																					RI-2		
SUBTOTAL:					SF 57.97		EA. 0						FT 150																							
												FT	FT 150	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 57.97	SF	EA. 0	SF				FT 150			FT					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
TRAFFIC SIGN SUMMARY SHEET 1

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 19 OF 41

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																				SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM Ø (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM Ø (in) 4.0 MOD lb/ft 1.7	FOUNDATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	TUBULAR STEEL Ø (in) 3.5 lb/ft 9.0	TUBULAR STEEL Ø (in) 4.0 lb/ft 10.8	TUBULAR STEEL Ø (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS	DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
STA. 16+54, LT	SPEED BUMP	1	30	30	6.25						1		X																					W17-1		
STA. 16+83, LT	YIELD	1	18	18	1.10						1		X																					R1-2		
STA. 17+30, LT	AHEAD	1	36	36	6.72						1		X																			FYG		S1-1		
		1	24	12	2.00																													S16-9P		
STA. 18+85, LT	SPEED BUMP	1	30	30	6.25						1		X																					W17-1		
STA. 19+84, LT		1	30	30	6.25						1		X																			FYG		W11-2		
		1	24	12	2.00																													W16-7P		
																																MOUNT BACK TO BACK				
		1	30	30	6.25																											FYG		W11-2		
		1	24	12	2.00																													W16-7P		
STA. 20+82, LT		1	30	30	6.25						1		X																			FYG		W11-2		
		1	24	12	2.00																													W16-7P		
																																MOUNT BACK TO BACK				
		1	30	30	6.25																											FYG		W11-2		
		1	24	12	2.00																													W16-7P		
STA. 21+57, LT	SPEED BUMP	1	30	30	6.25						1		X																					W17-1		
SUBTOTAL:					SF 61.57		EA. 0						FT 105																								
												FT	FT 105	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 61.57	SF	EA. 0	SF				FT 105			FT					LB			EA.	LB				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
TRAFFIC SIGN SUMMARY SHEET 2

PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 20 OF 41

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75	2.0	2.5	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0	4.0	4.0 MOD	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0	3.5	4.0	5.0	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
																				1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6								
STA. 23+06, LT		1	30	30	6.25						1		X																					FYG	WII-2		
		1	24	12	2.00																													MOUNT BACK TO BACK	WI6-7P		
		1	30	30	6.25																													FYG	WII-2		
		1	24	12	2.00																														WI6-7P		
STA. 23+06, LT		1	30	30	6.25						1		X																					FYG	WII-2		
		1	24	12	2.00																													MOUNT BACK TO BACK	WI6-7P		
		1	30	30	6.25																													FYG	WII-2		
		1	24	12	2.00																														WI6-7P		
STA. 23+23, RT		1	18	18	1.10						1		X																						RI-2		
STA. 23+58, LT		1	18	18	1.10						1		X																						RI-2		
STA. 24+79, LT		1	24	18	3.00						1		X																						R3-17		
		1	24	8	1.33		1																												R3-17bP		
							1																														
STA. 25+86, RT		1	18	18	1.86						1		X																						RI-1		
STA. 26+23, RT		1	30	30	5.18						1		X																						RI-1		
SUBTOTAL:					46.57		2						105																									
SHEET 1 SUBTOTAL:					57.97		0						150																									
SHEET 2 SUBTOTAL:					61.57		0						105																									
SHEET 3 SUBTOTAL:					46.57		2						105																									
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 156.11	SF	EA. 2	SF				FT 360			FT					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

Stantec

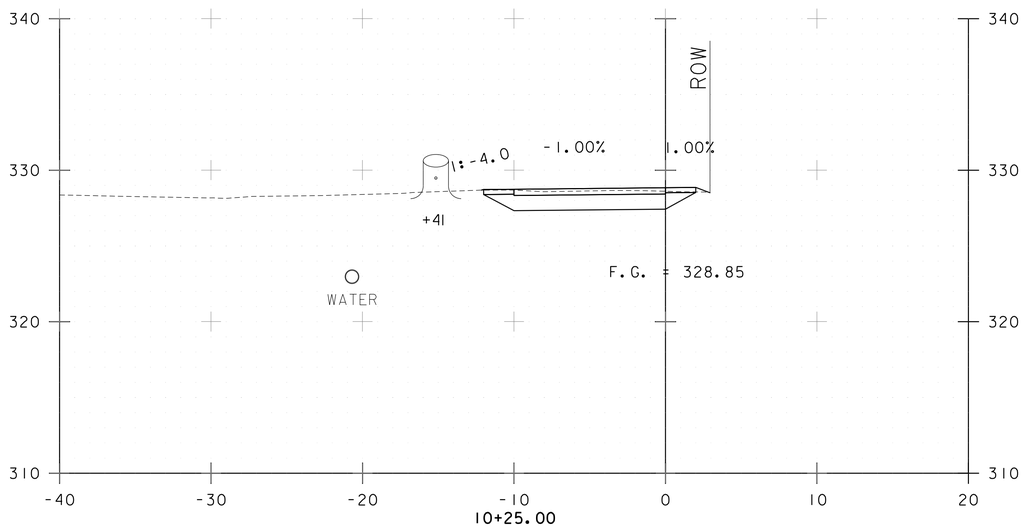
PROJECT NAME: MANSFIELD AVE SIDEPATH
PROJECT NUMBER: I79450026

FILE NAME: I79450026frm.dgn
PROJECT LEADER: E. ALLING
DESIGNED BY: C. WAITE
TRAFFIC SIGN SUMMARY SHEET 3

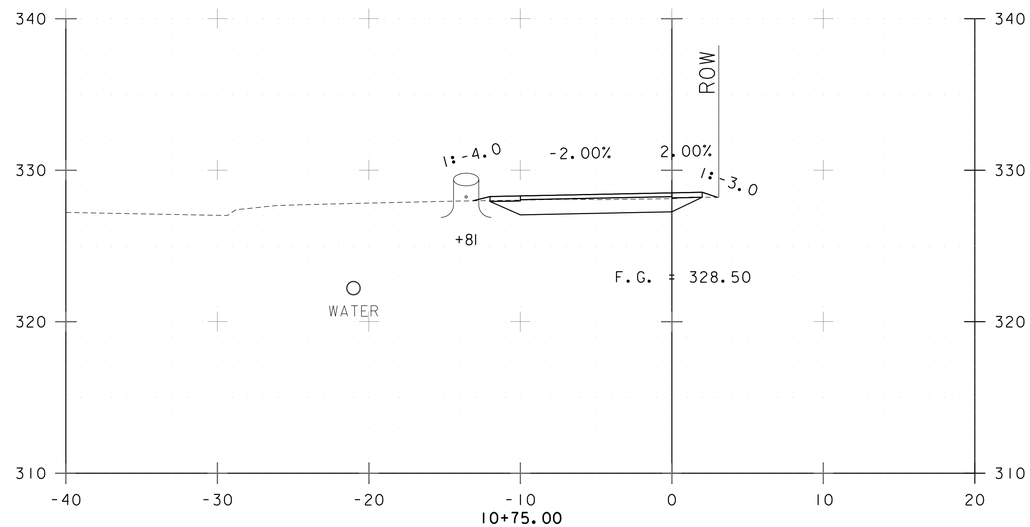
PLOT DATE: 2/3/2022
DRAWN BY: C. WAITE
CHECKED BY: E. ALLING
SHEET 21 OF 41

NOTE:

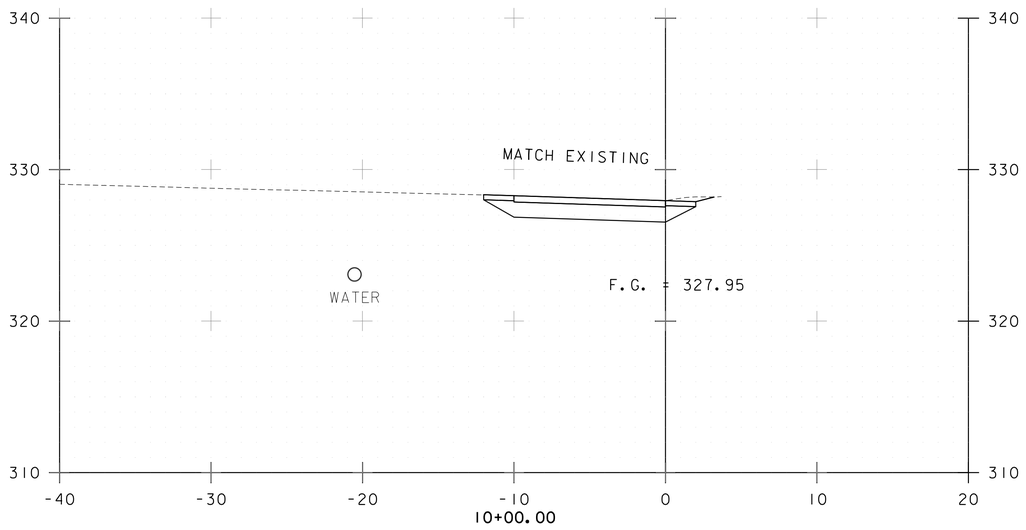
WATER LINE LOCATION APPROXIMATE (TYP)



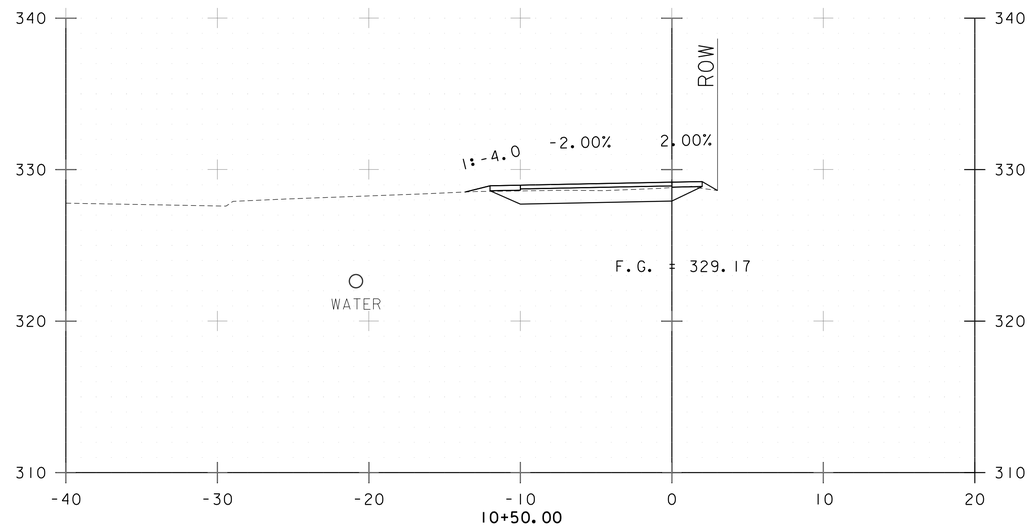
10+25.00



10+75.00



10+00.00

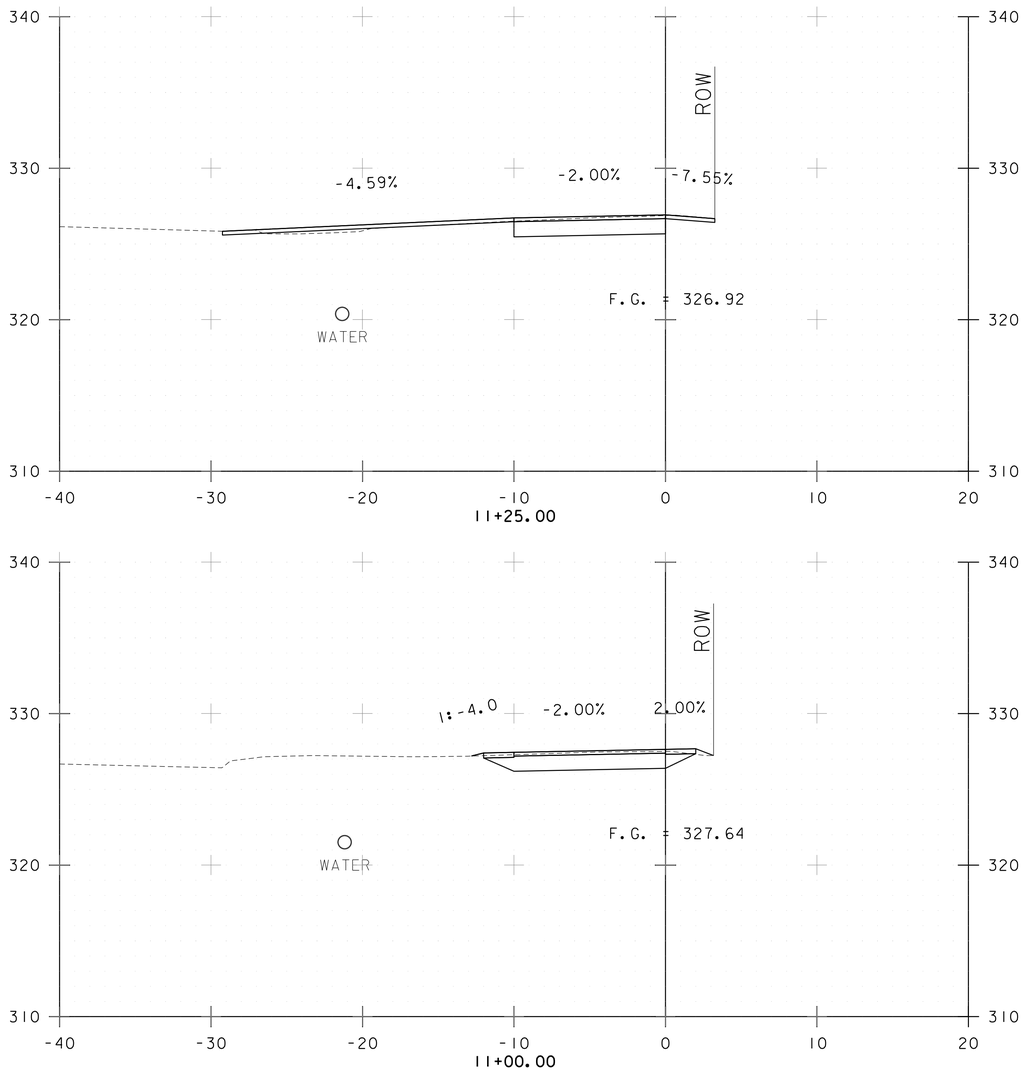


10+50.00

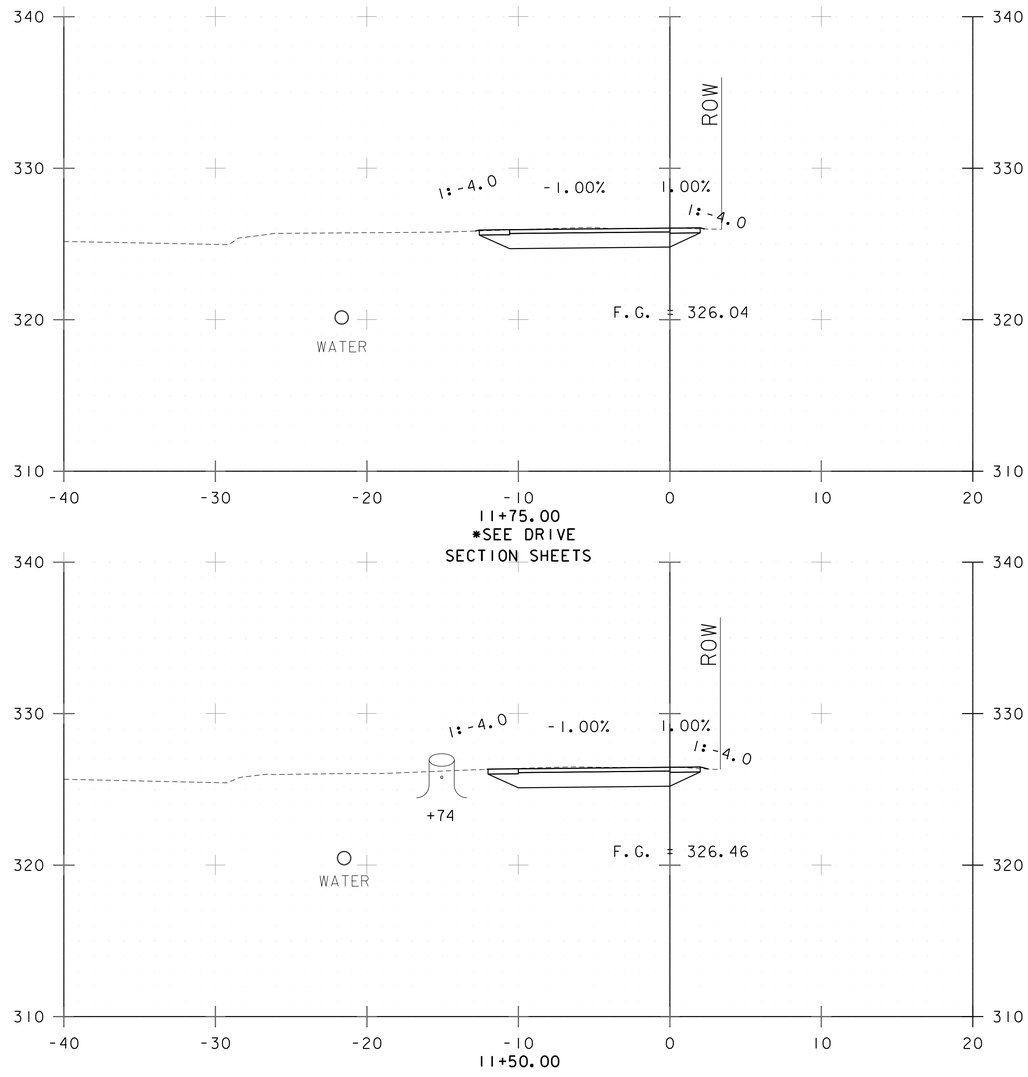
0 5 10
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: 179450026	
FILE NAME: 179450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 1	SHEET 22 OF 41



11+25.00



11+75.00
*SEE DRIVE
SECTION SHEETS

11+00.00

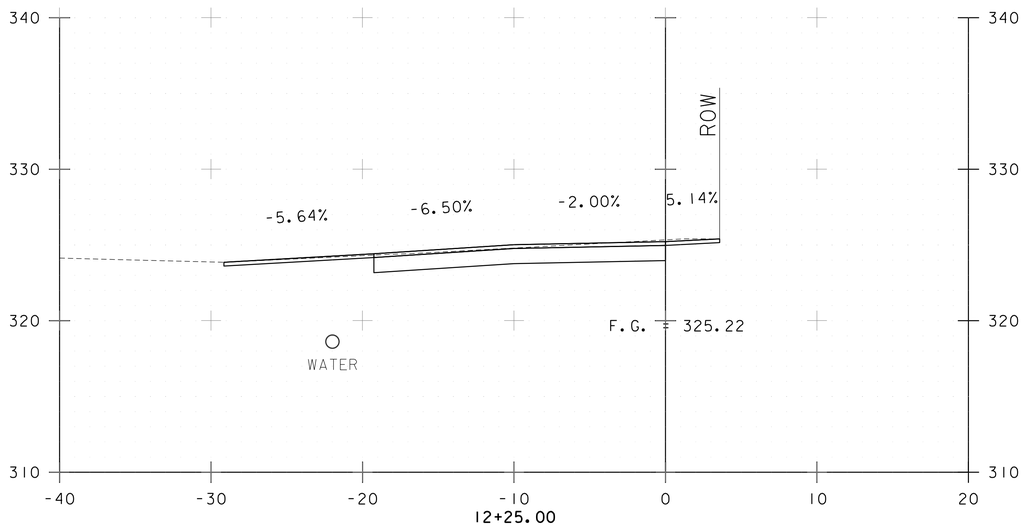
11+50.00

*SEE DRIVE
SECTION SHEETS

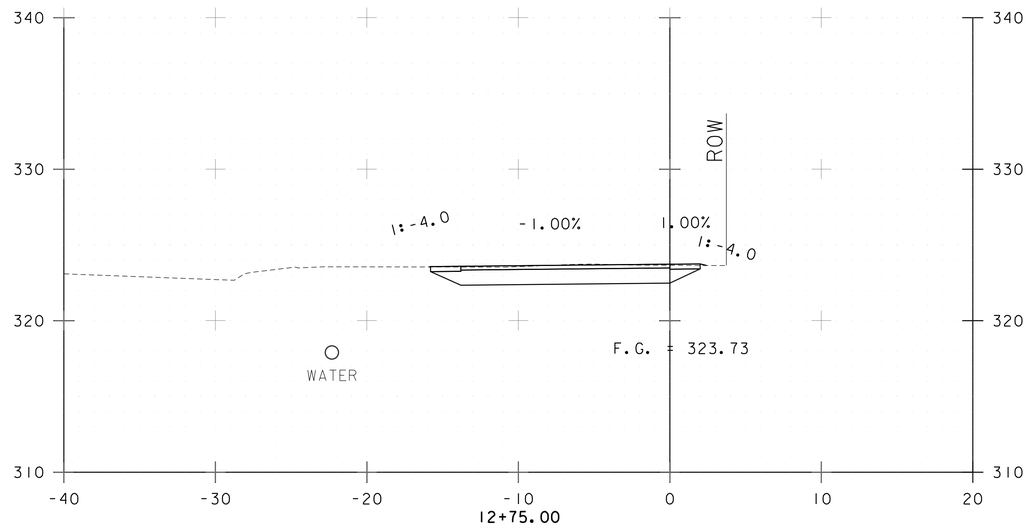
0 5 10
SCALE IN FEET

Stantec

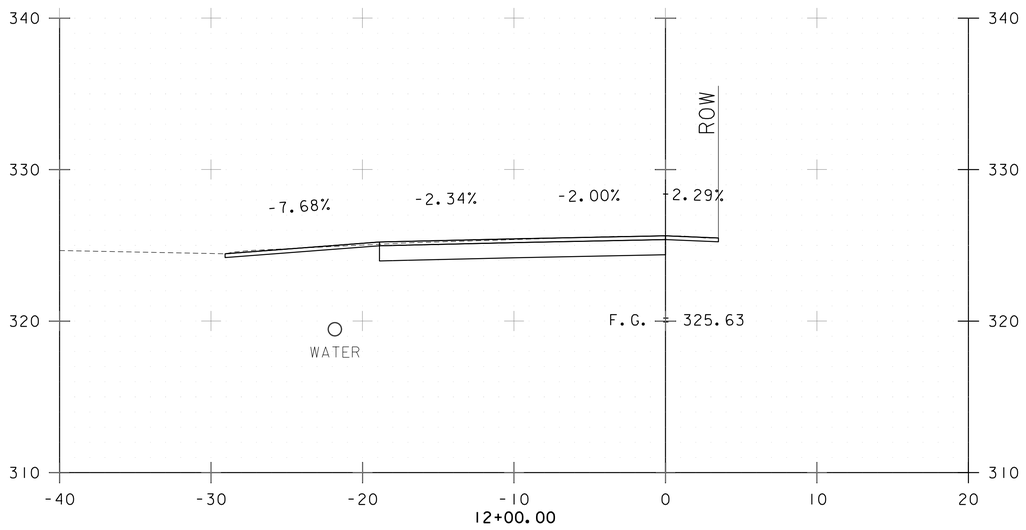
PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 2	SHEET 23 OF 41



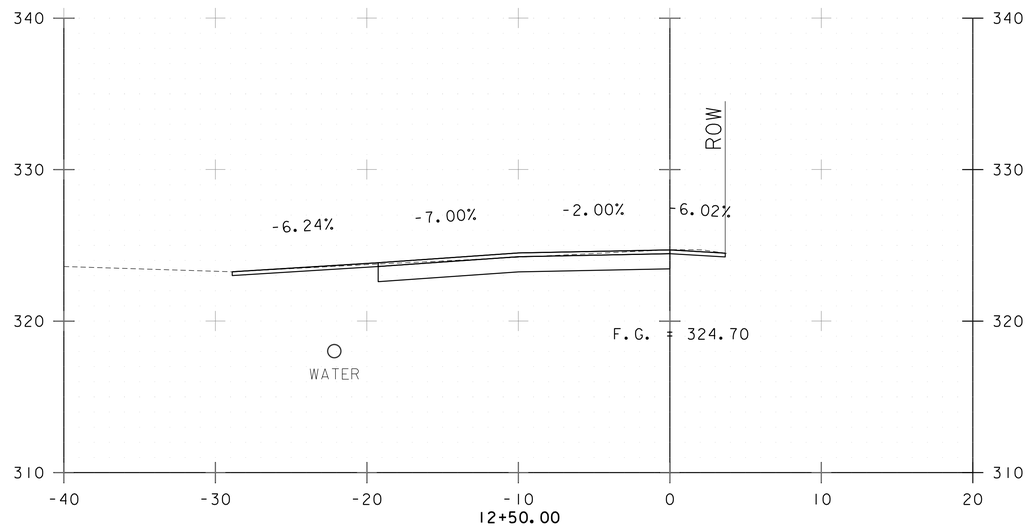
12+25.00



12+75.00



12+00.00

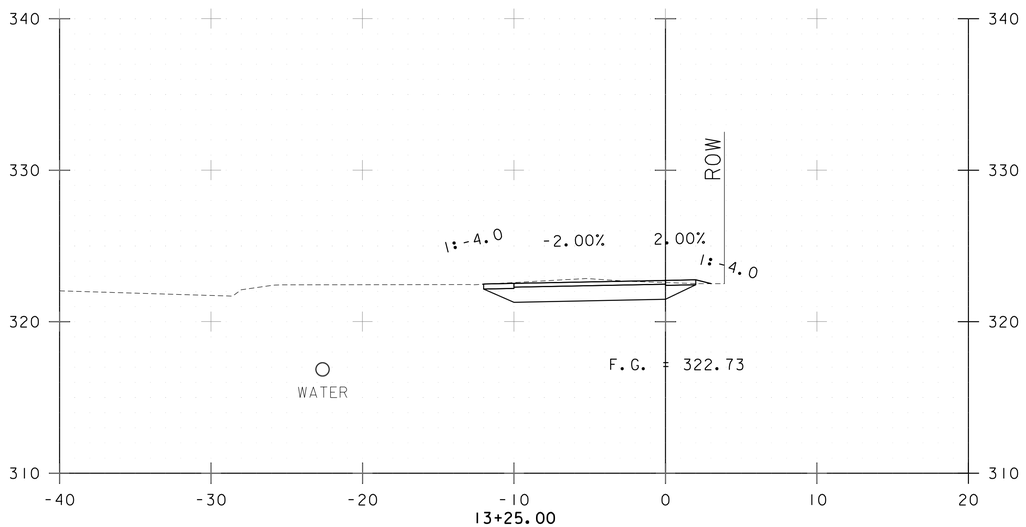


12+50.00

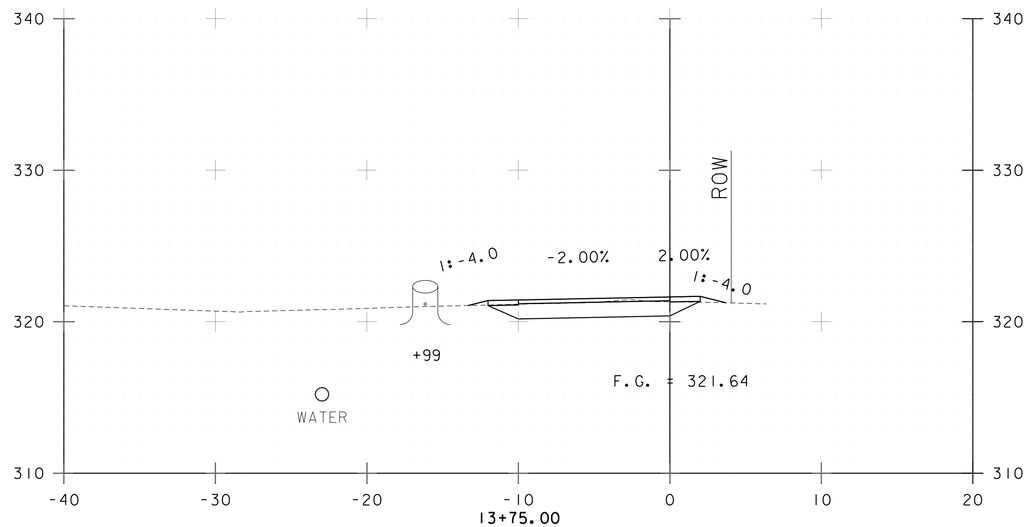
0 5 10
SCALE IN FEET

Stantec

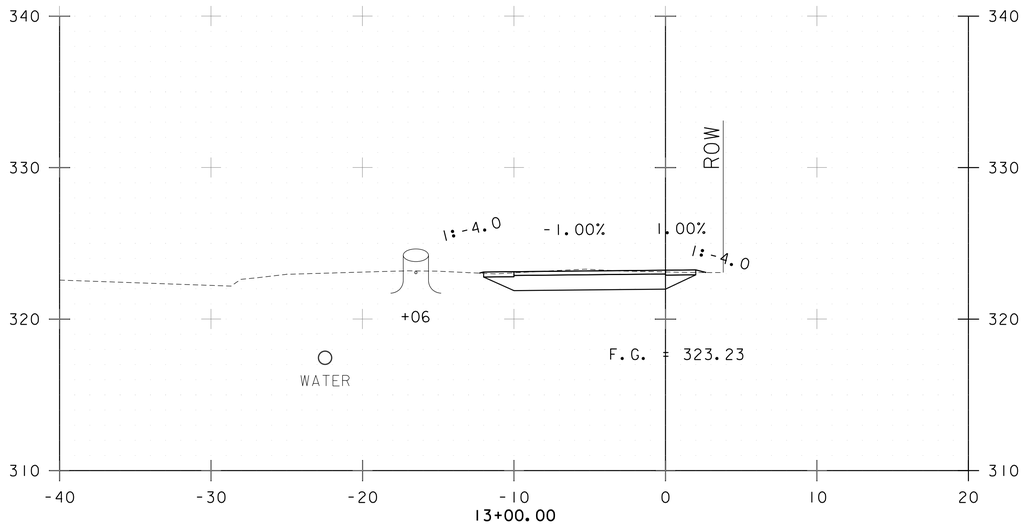
PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: I79450026	
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 3	SHEET 24 OF 41



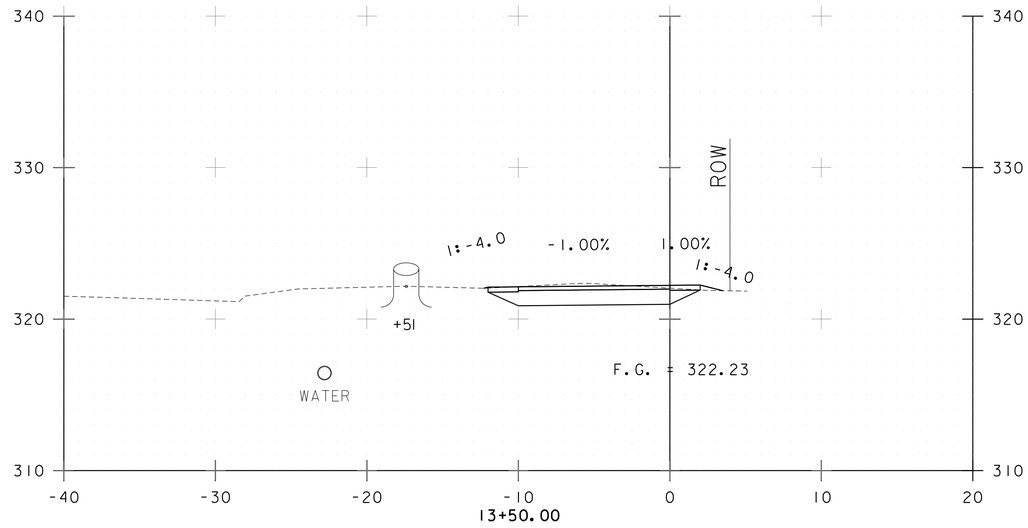
13+25.00



13+75.00



13+00.00

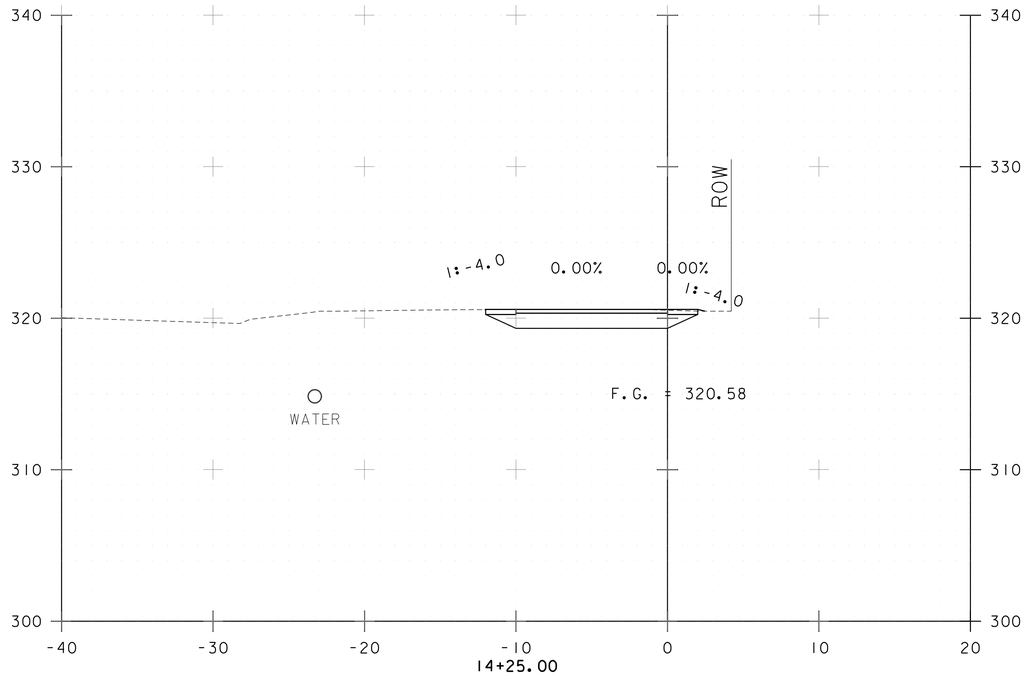


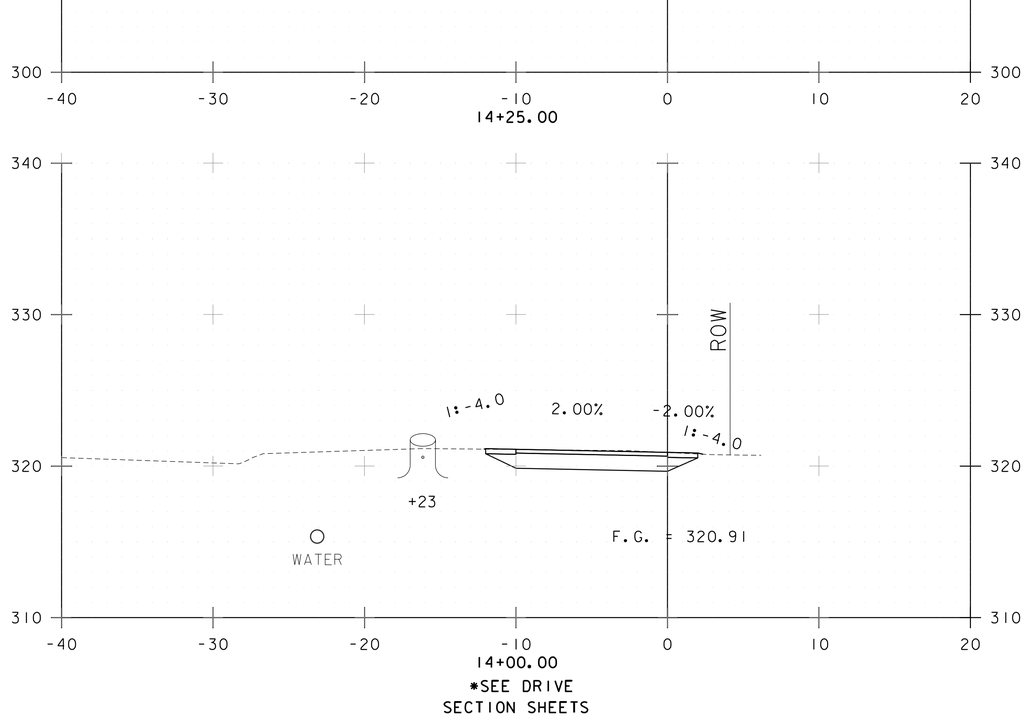
13+50.00

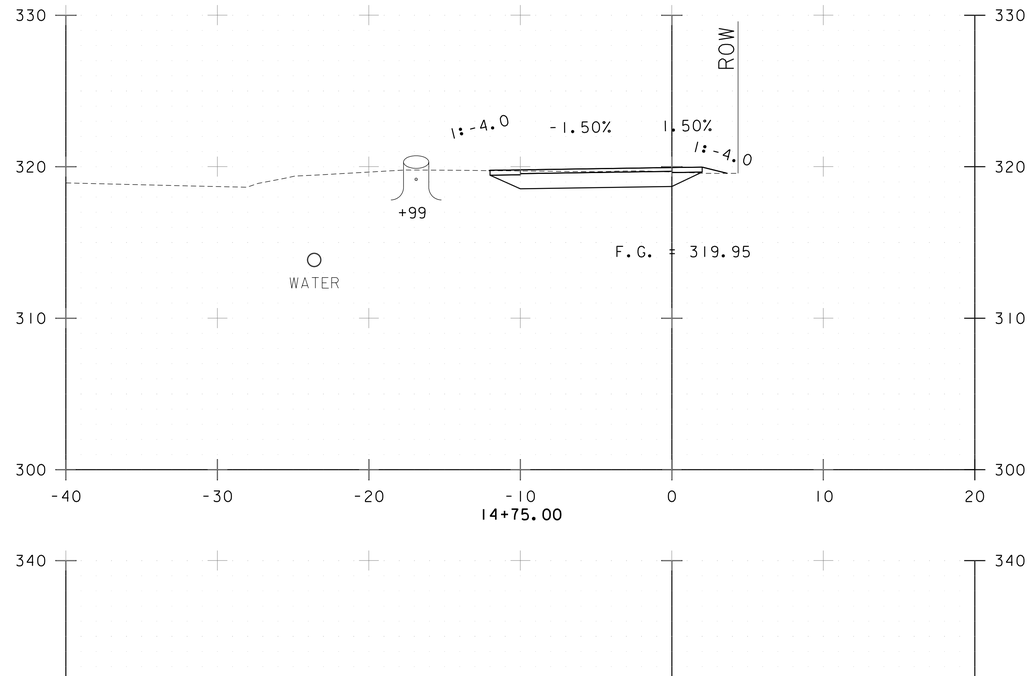
0 5 10
SCALE IN FEET

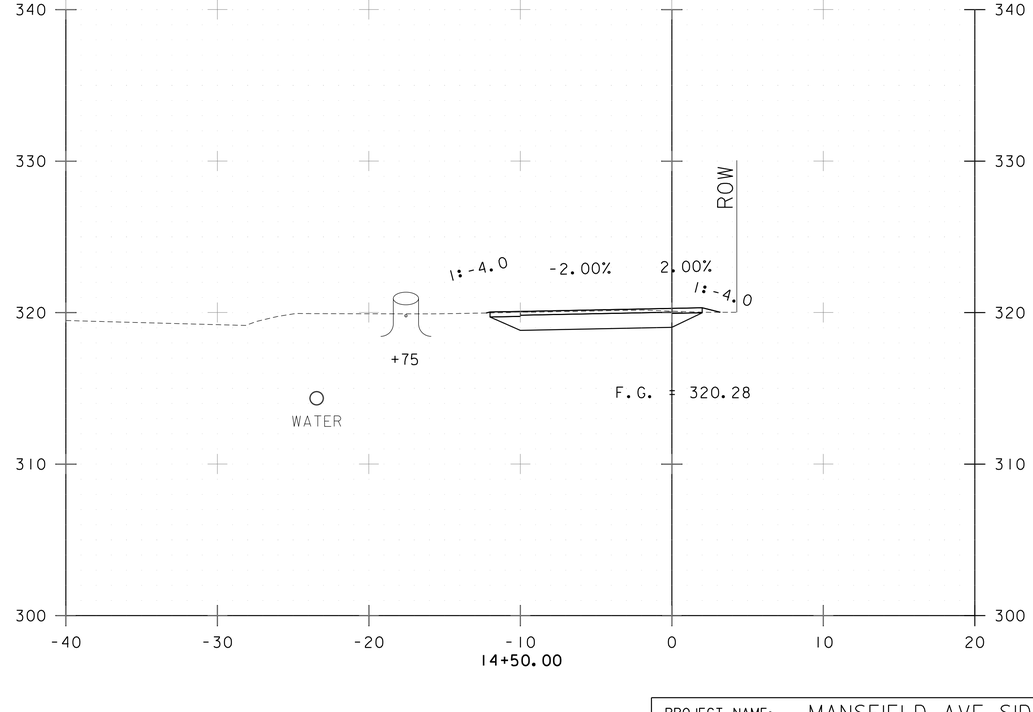
Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 4	SHEET 25 OF 41





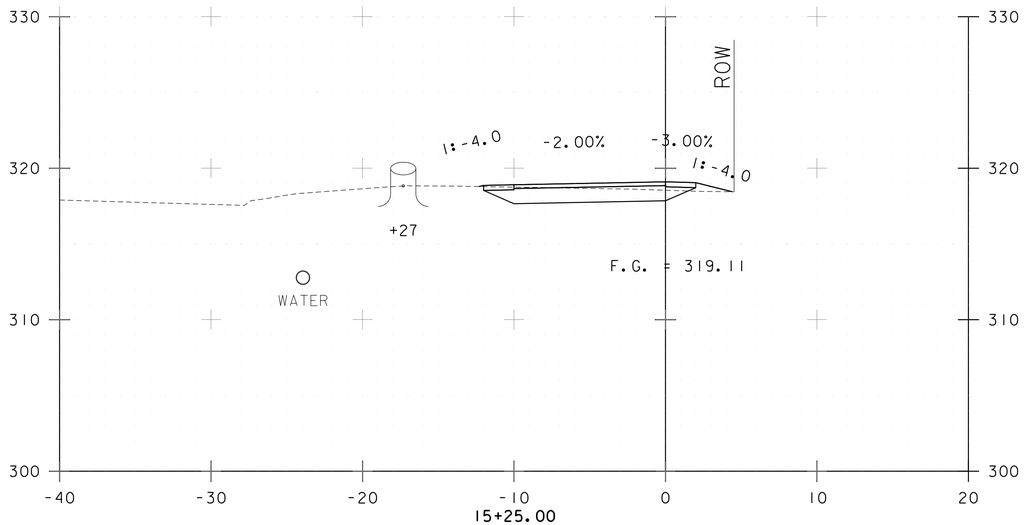




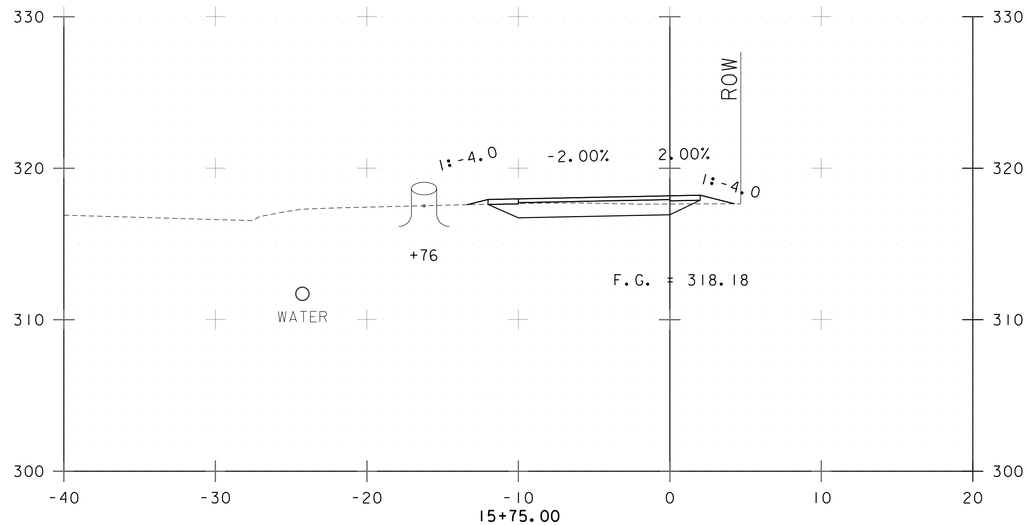
0 5 10
SCALE IN FEET

Stantec

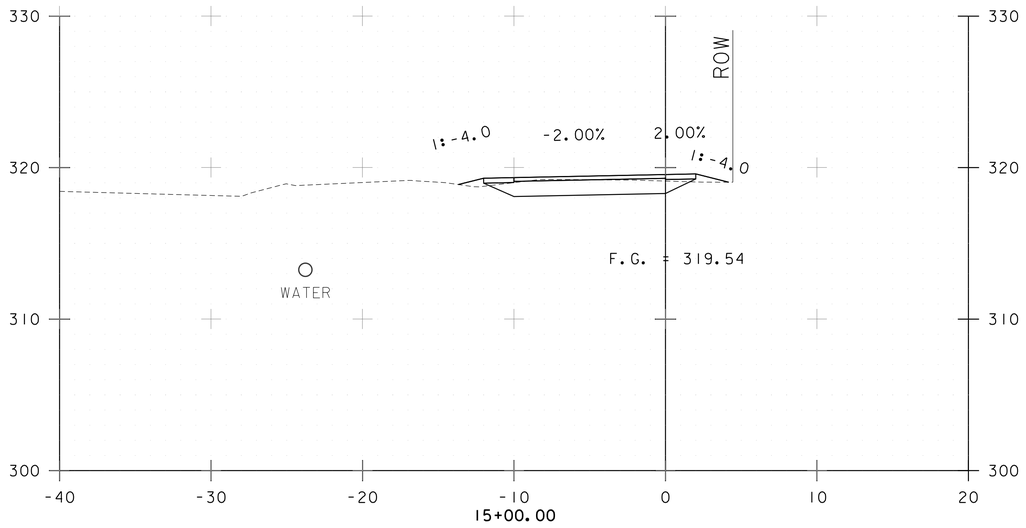
PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: I79450026	
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 5	SHEET 26 OF 41



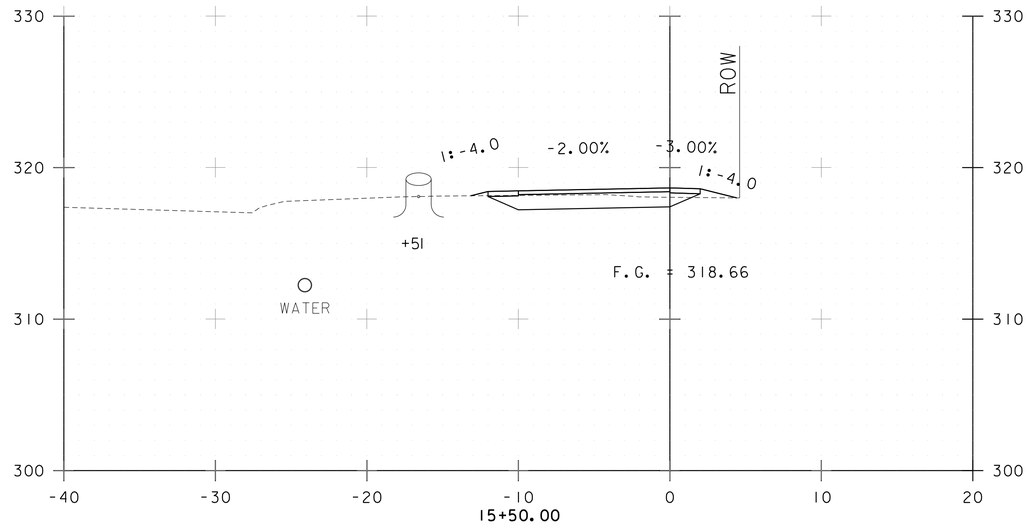
15+25.00



15+75.00



15+00.00

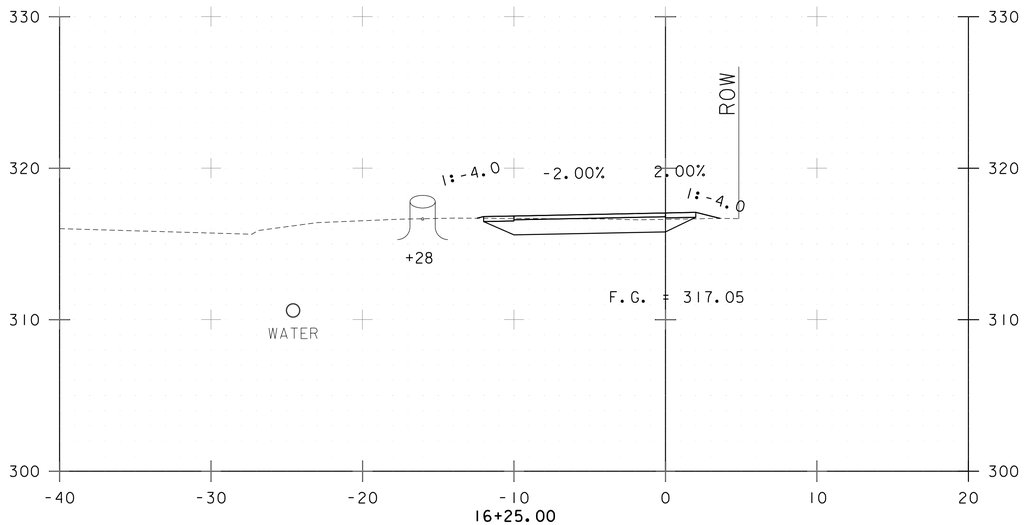


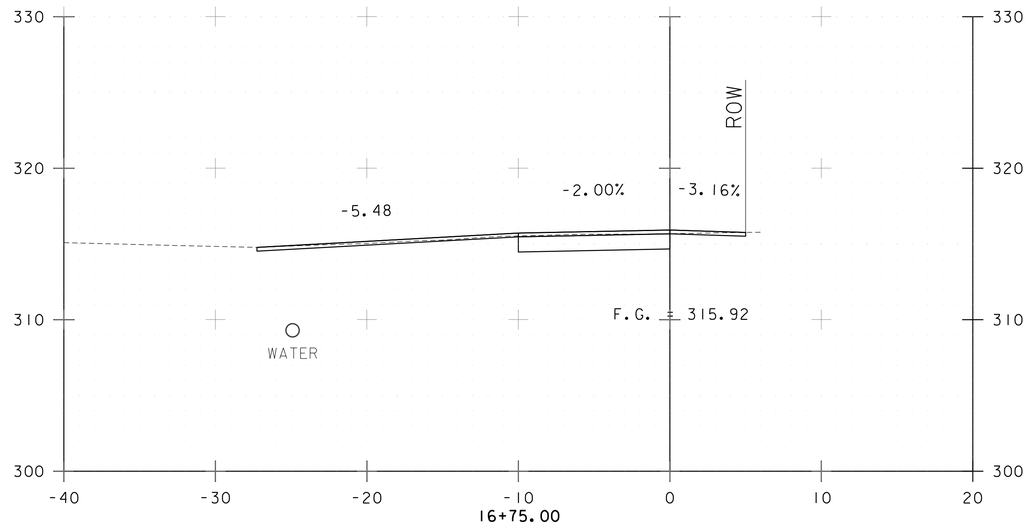
15+50.00

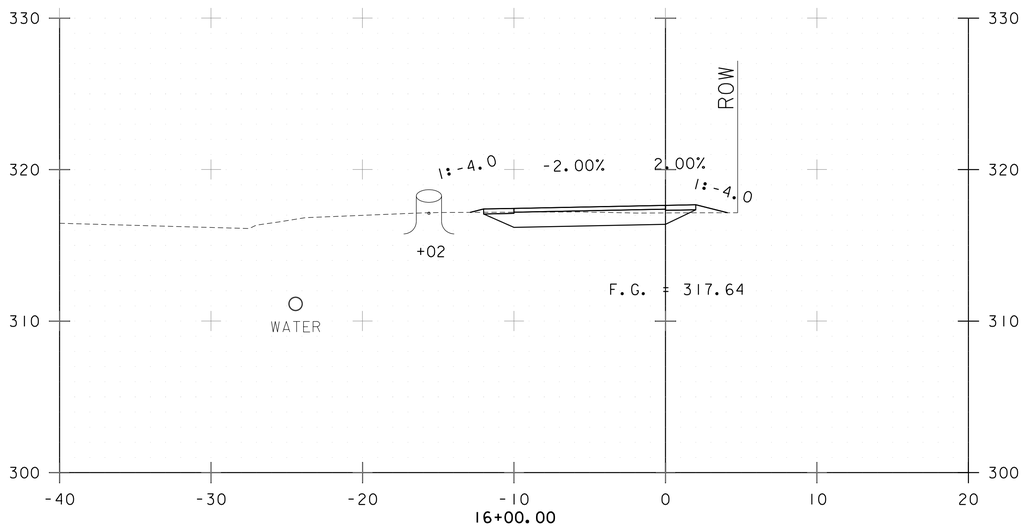
0 5 10
SCALE IN FEET

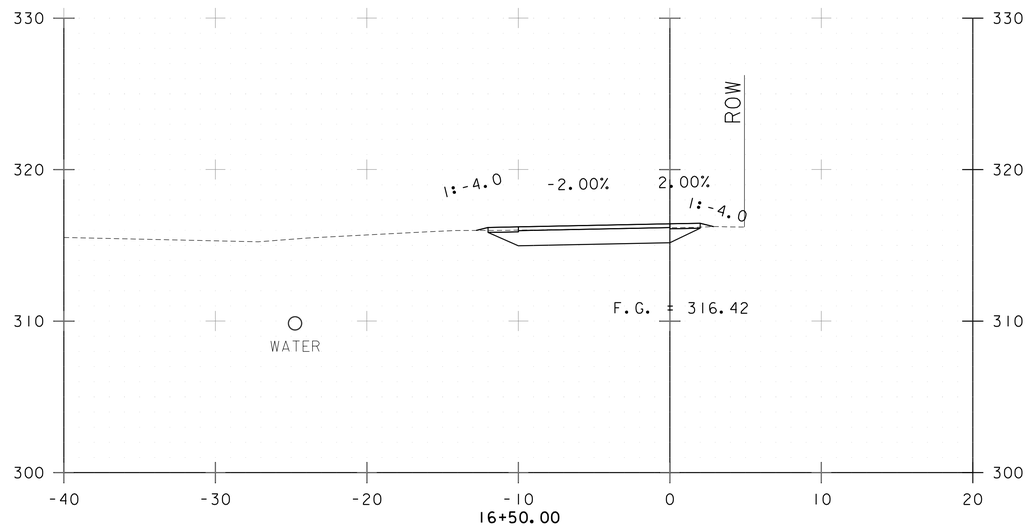
Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 6	SHEET 27 OF 41





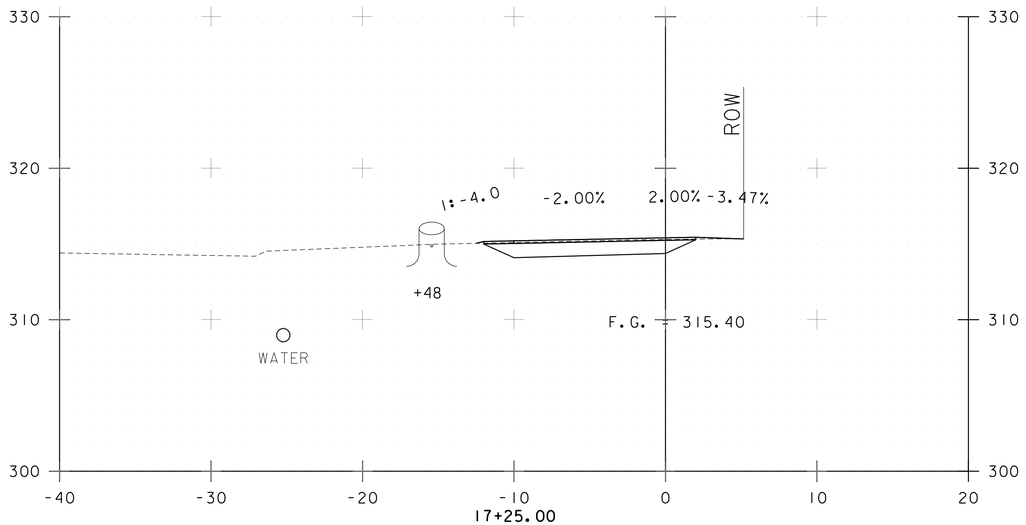




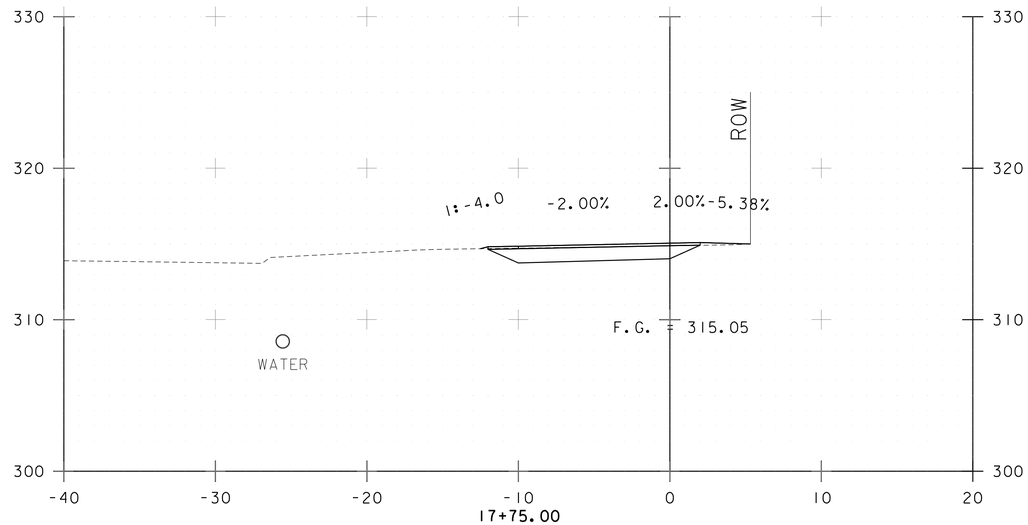
0 5 10
SCALE IN FEET

Stantec

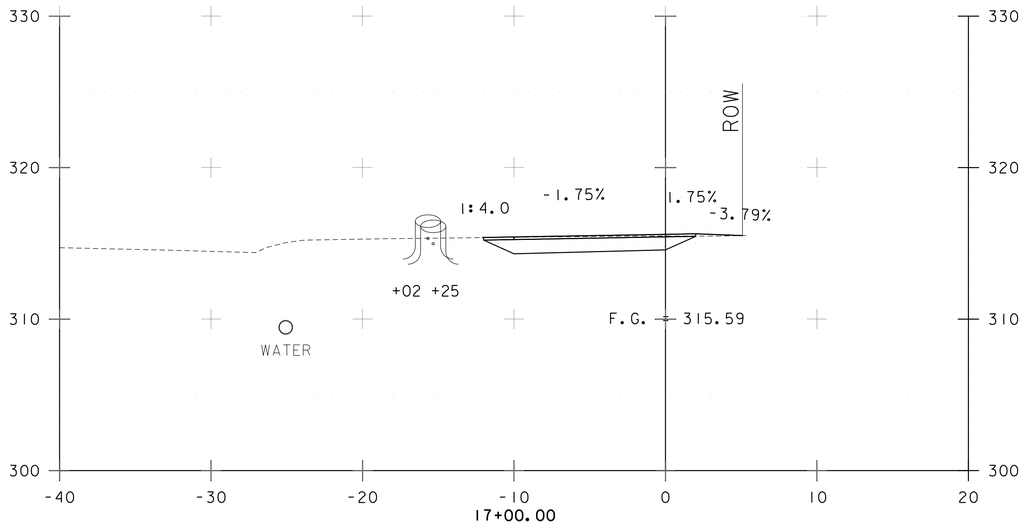
PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: I79450026	
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 7	SHEET 28 OF 41



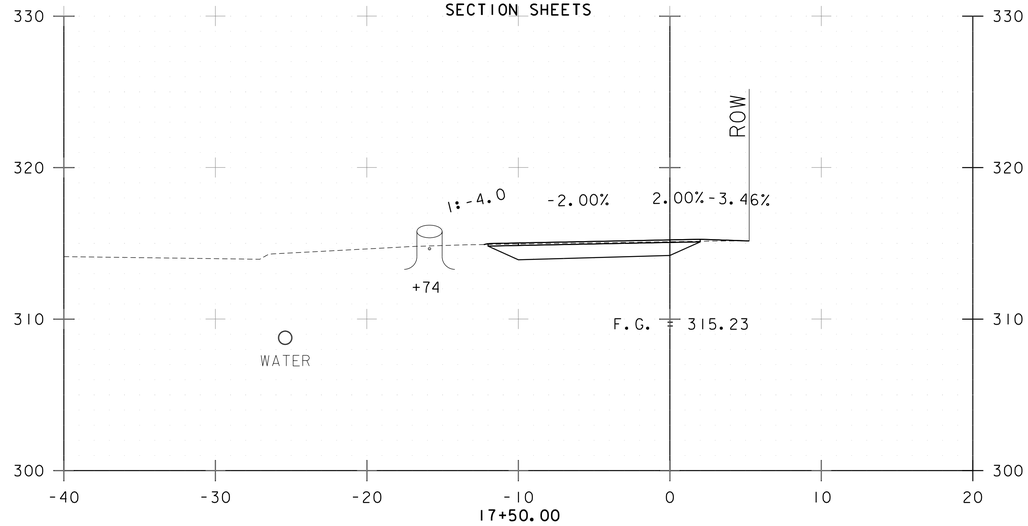
17+25.00



17+75.00
*SEE DRIVE
SECTION SHEETS



17+00.00

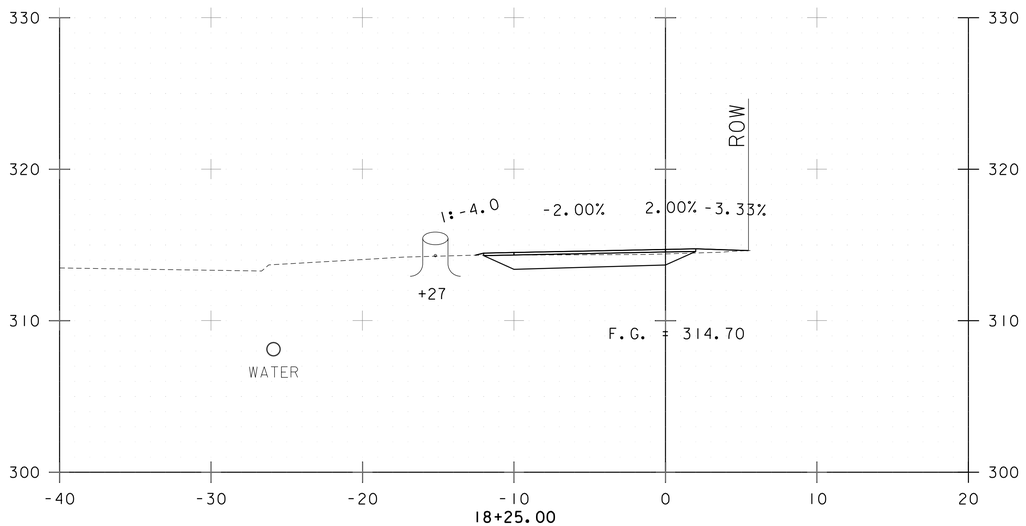


17+50.00

0 5 10
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: I79450026	
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 8	SHEET 29 OF 41



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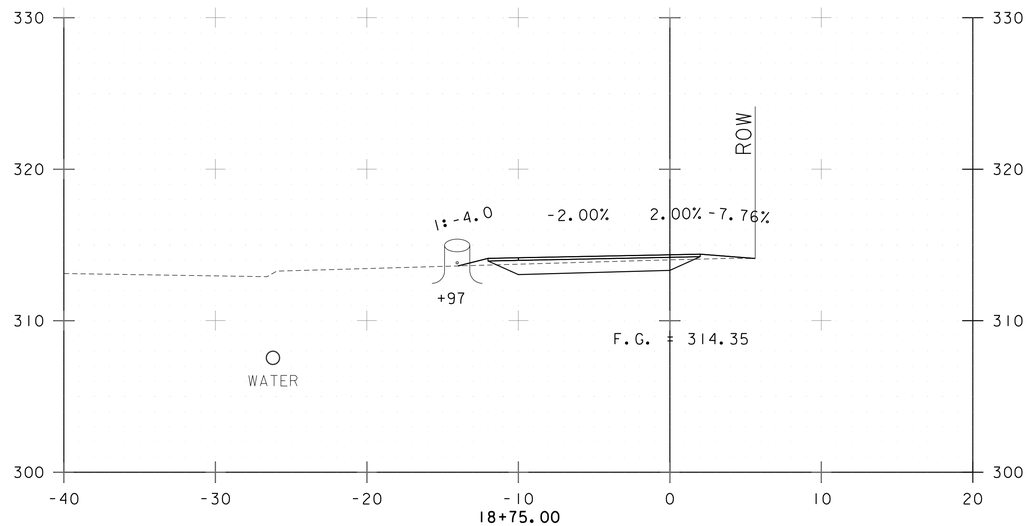

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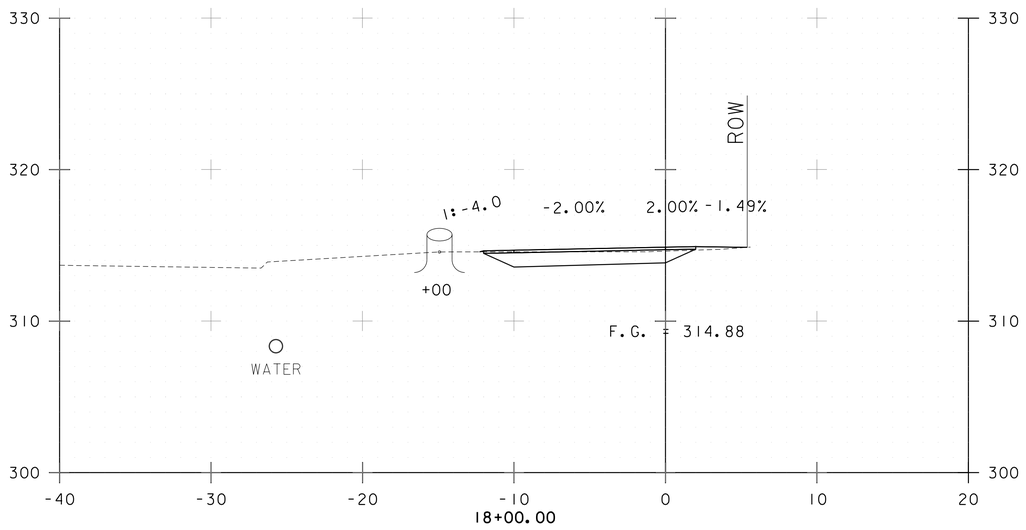

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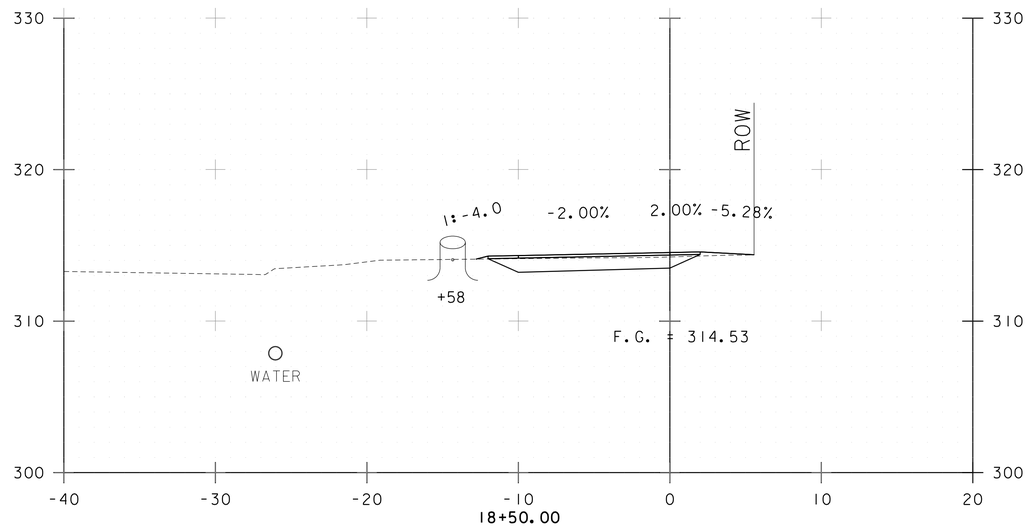
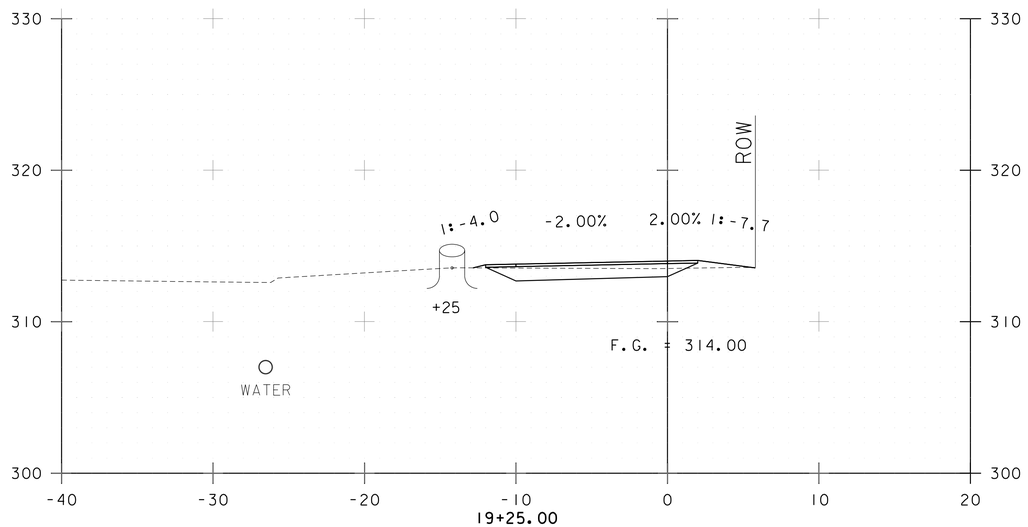


18+50.00

0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 9	SHEET 30 OF 41



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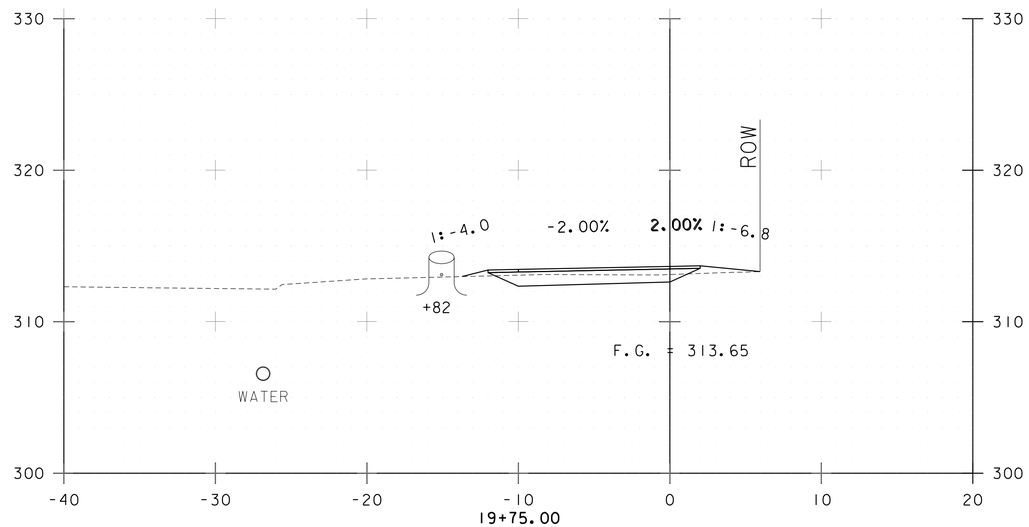

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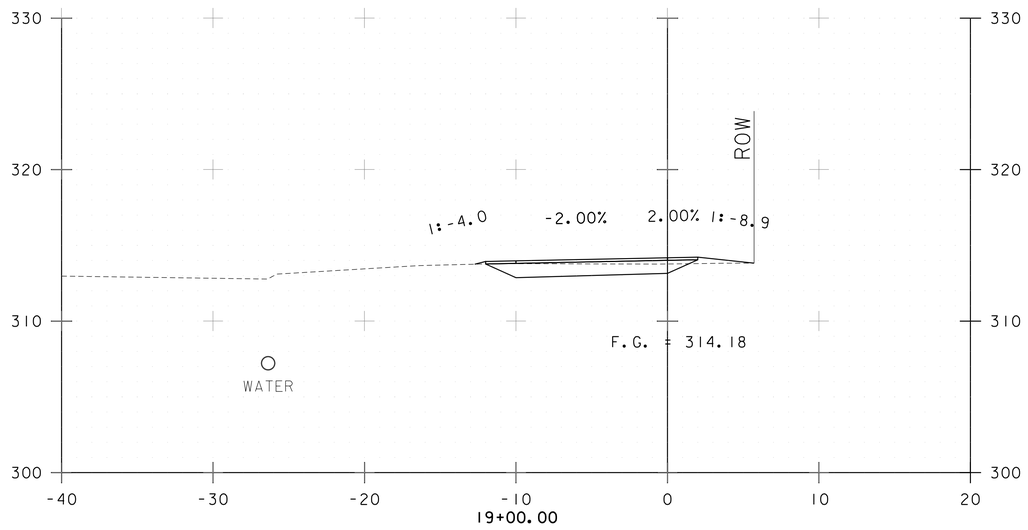

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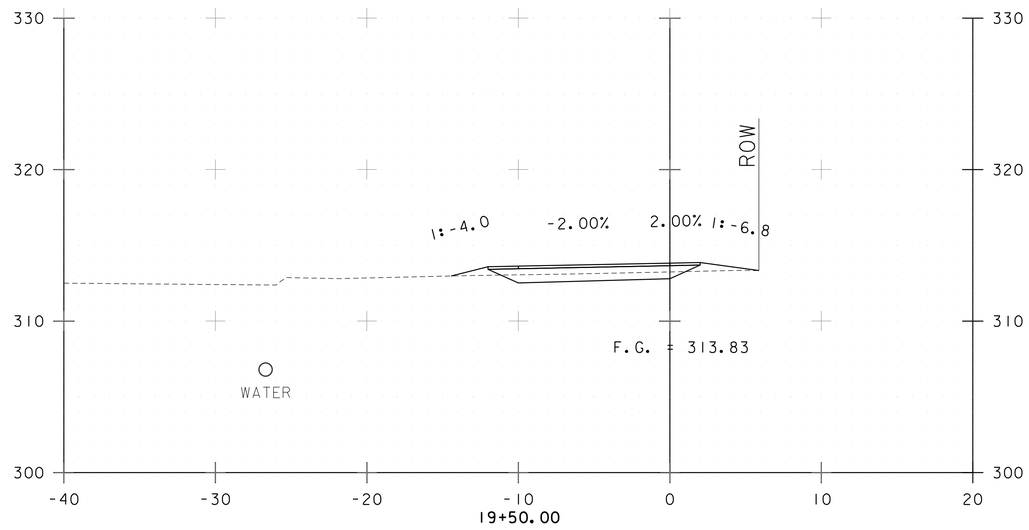
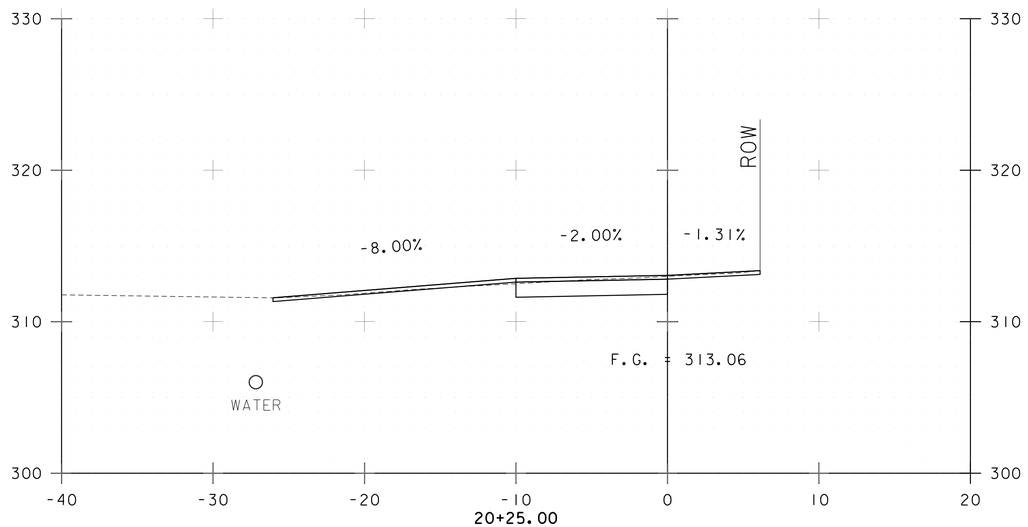


19+50.00

0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 10	SHEET 31 OF 41



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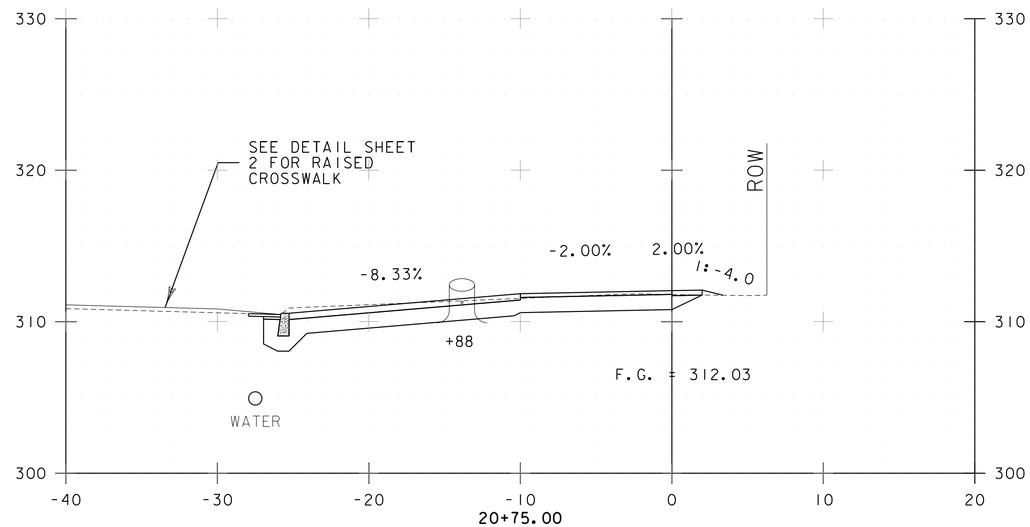

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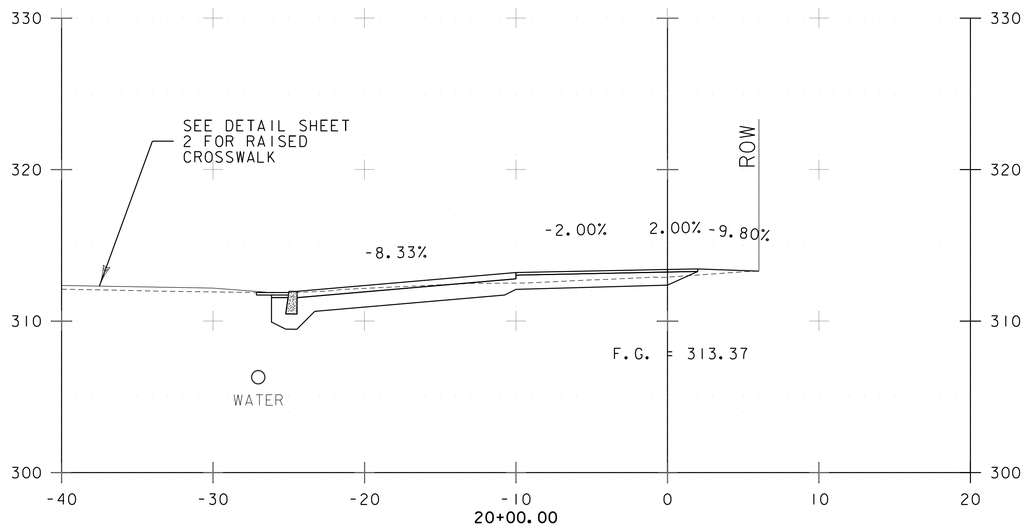

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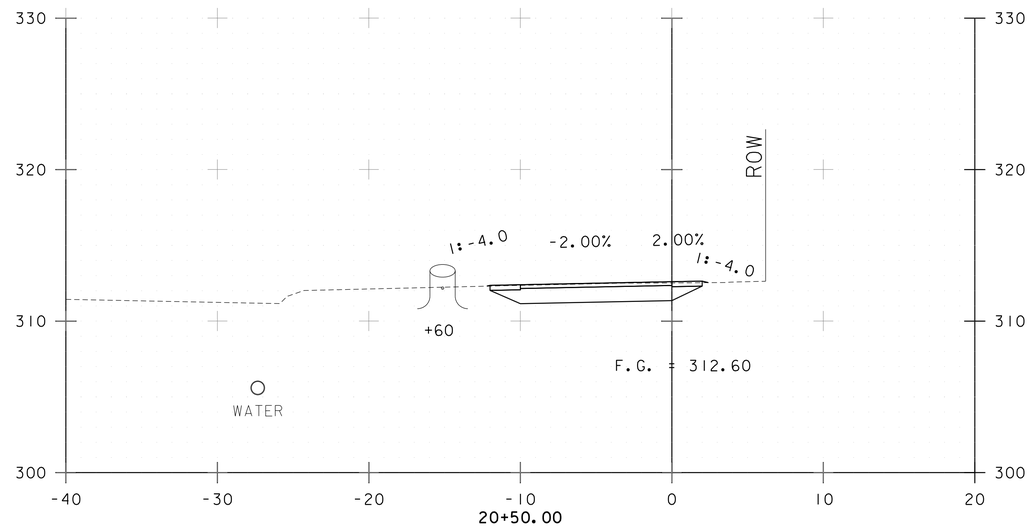
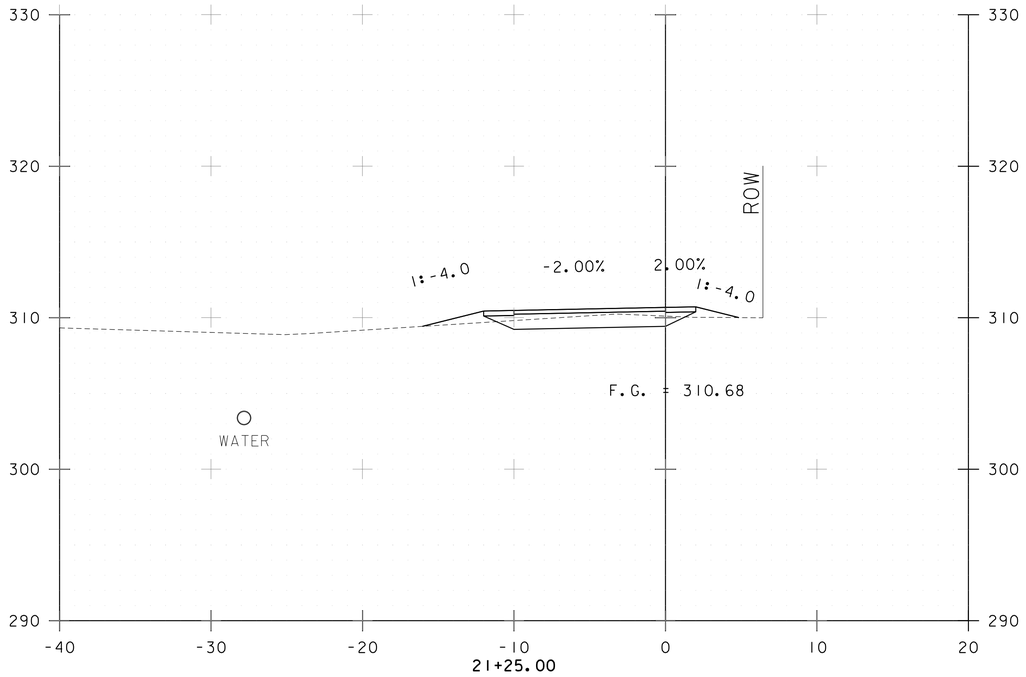


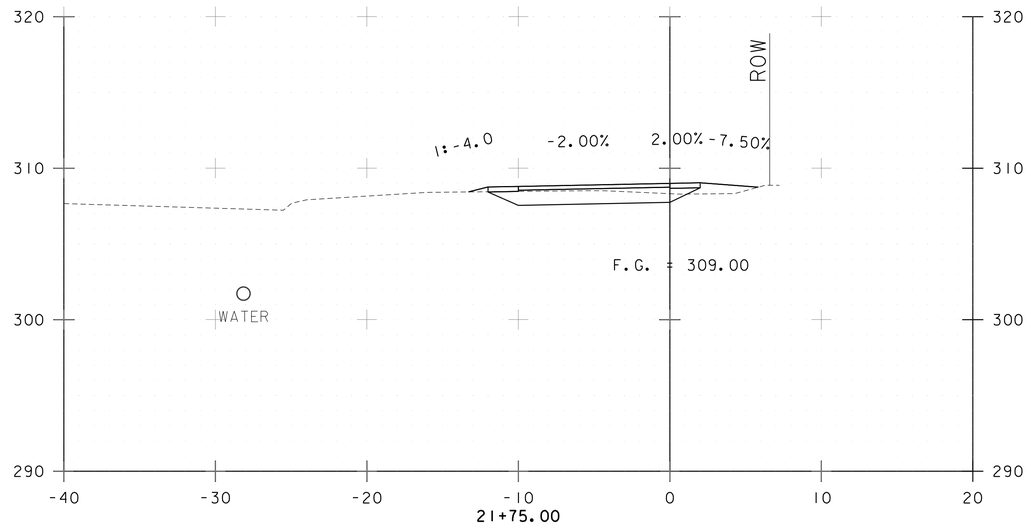
20+50.00

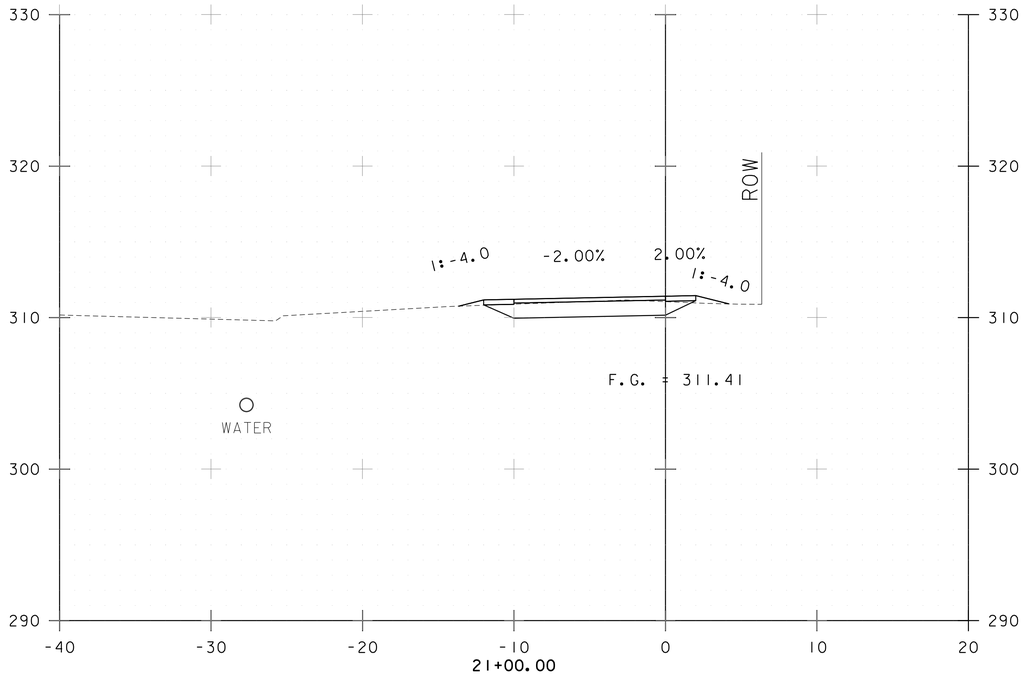
0 5 10
SCALE IN FEET

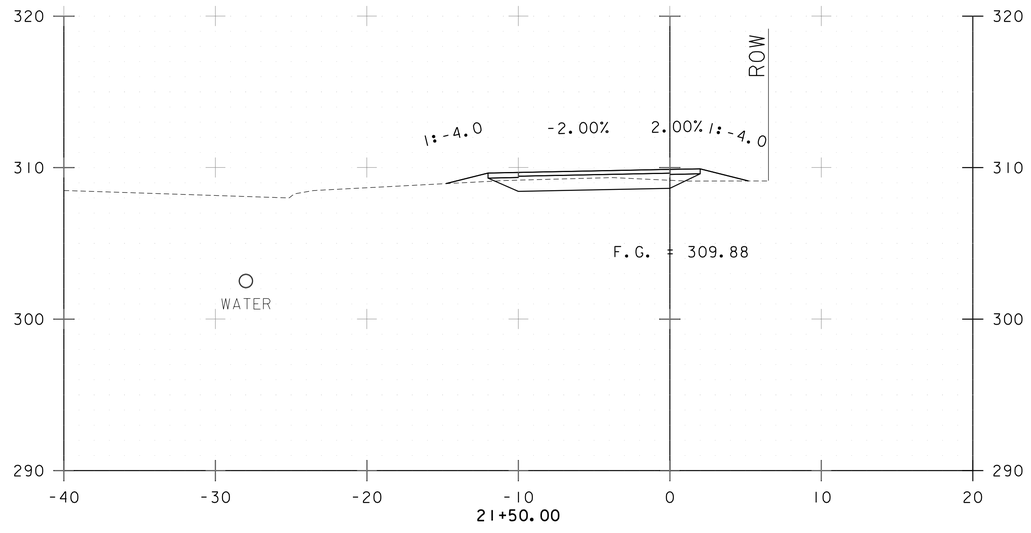
Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET II	SHEET 32 OF 41









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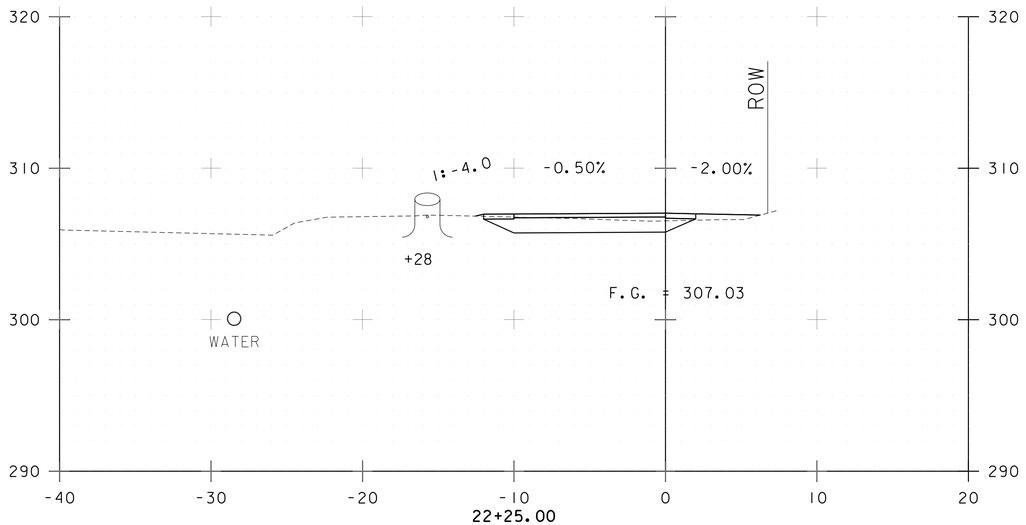
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 12	SHEET 33 OF 41



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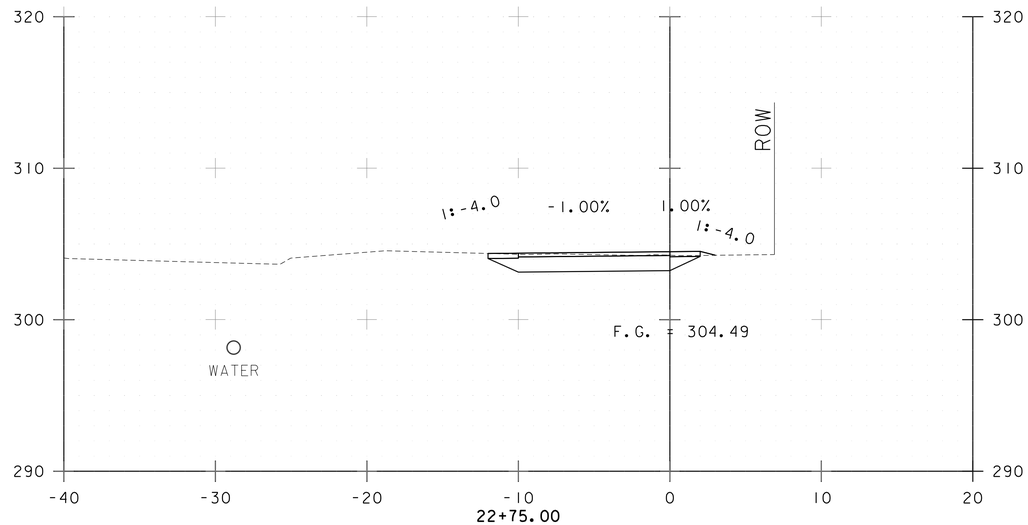

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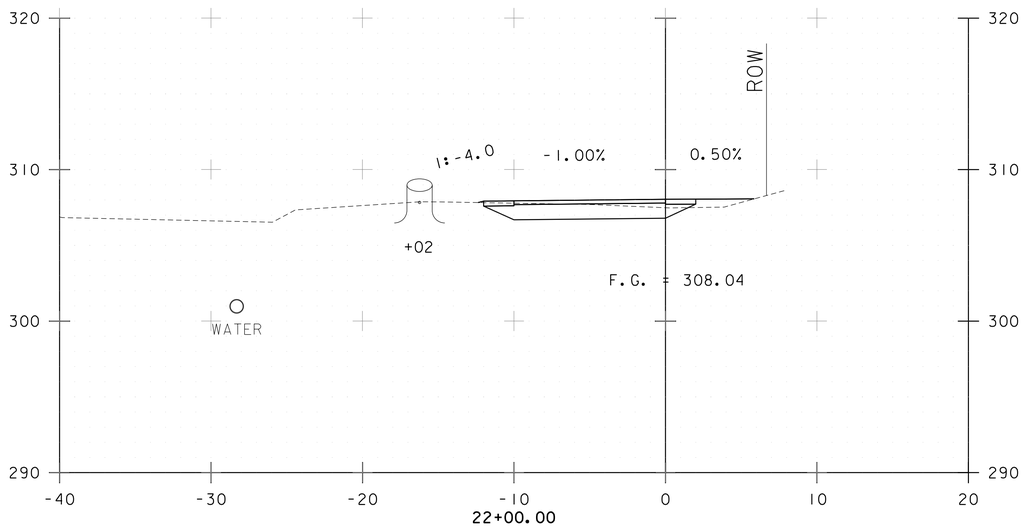

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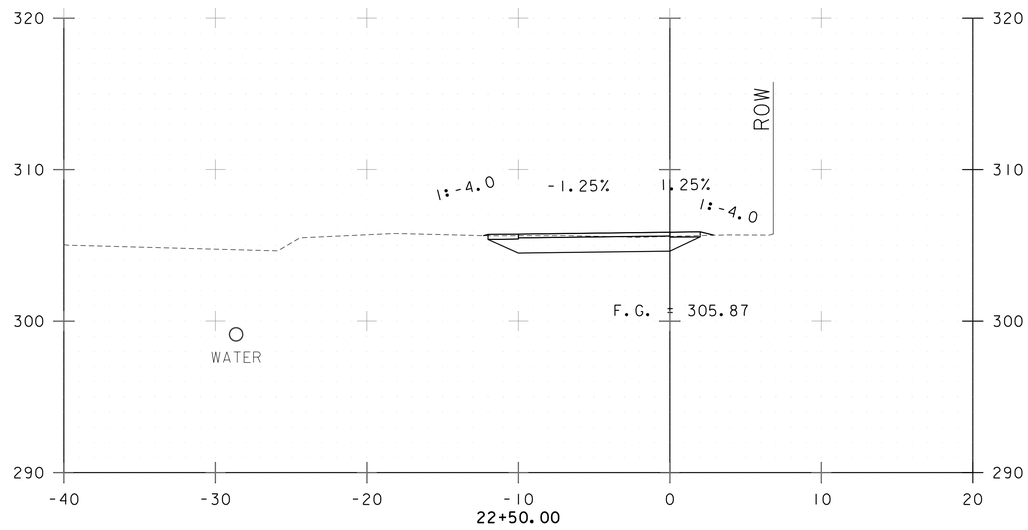
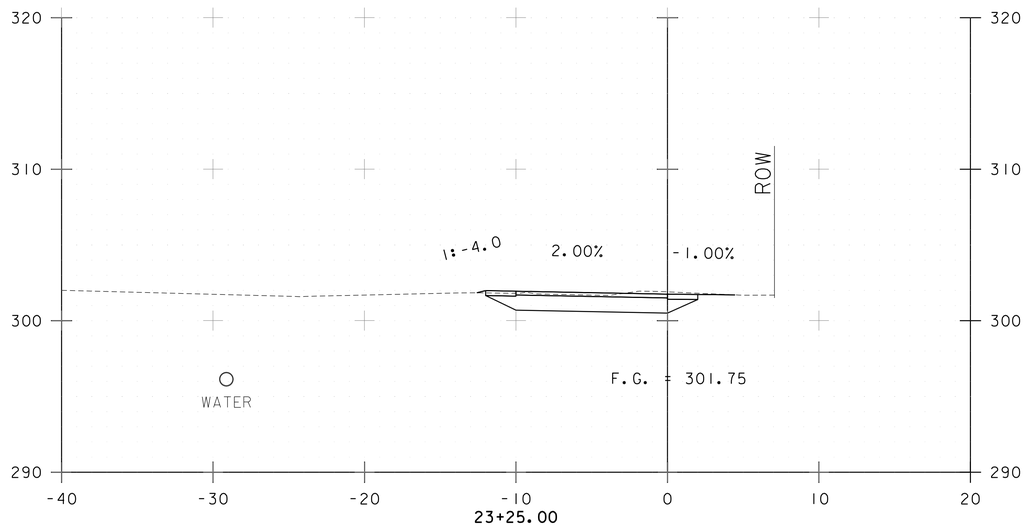


22+50.00

0 5 10
SCALE IN FEET

Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: I79450026	
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 13	SHEET 34 OF 41



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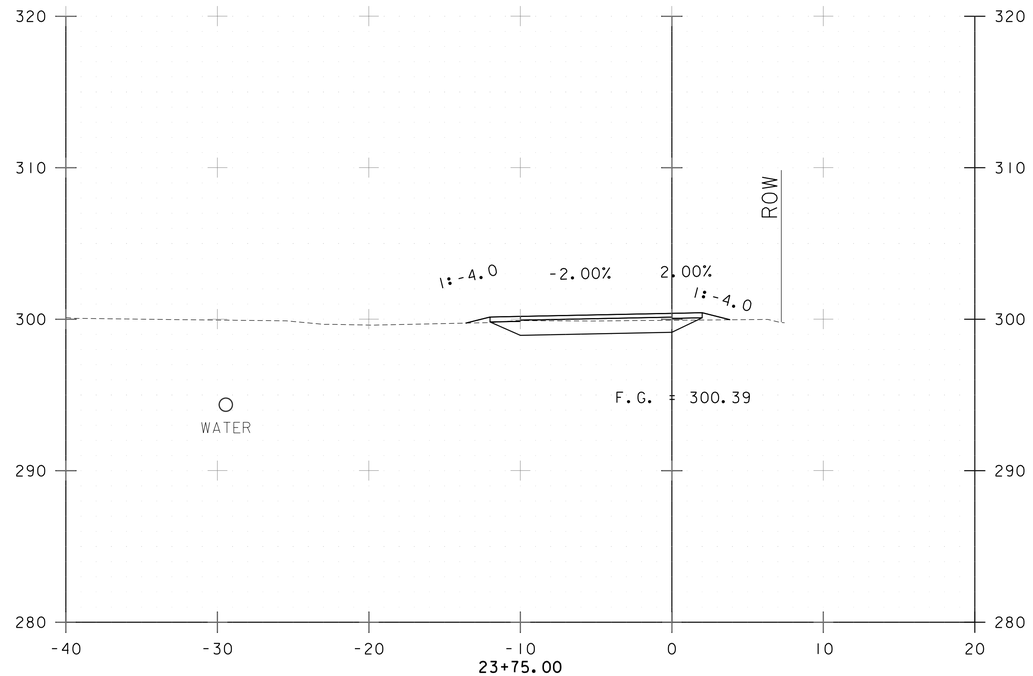

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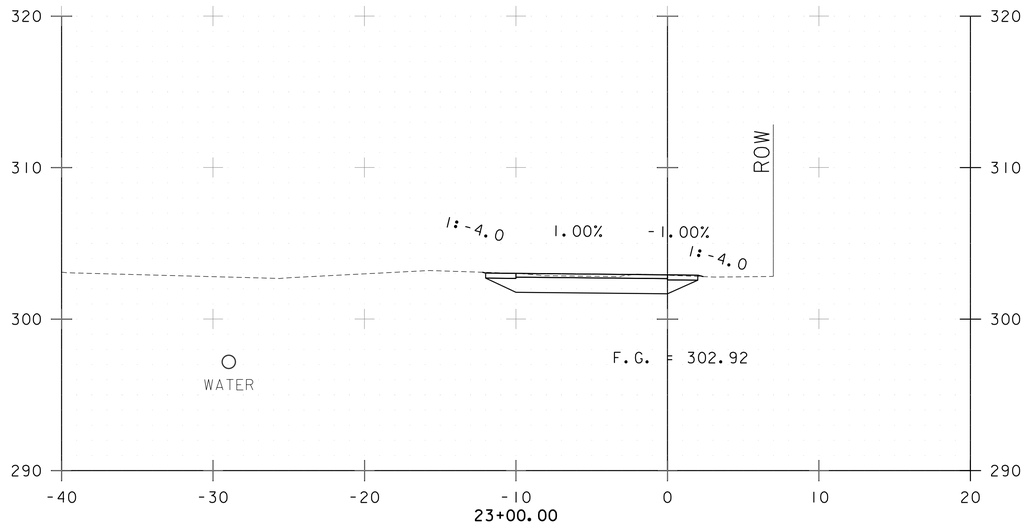

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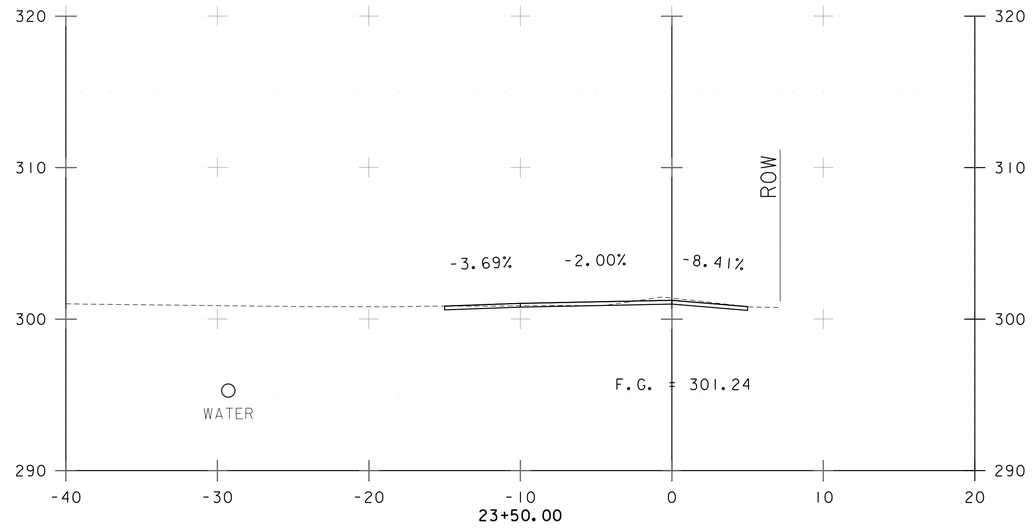
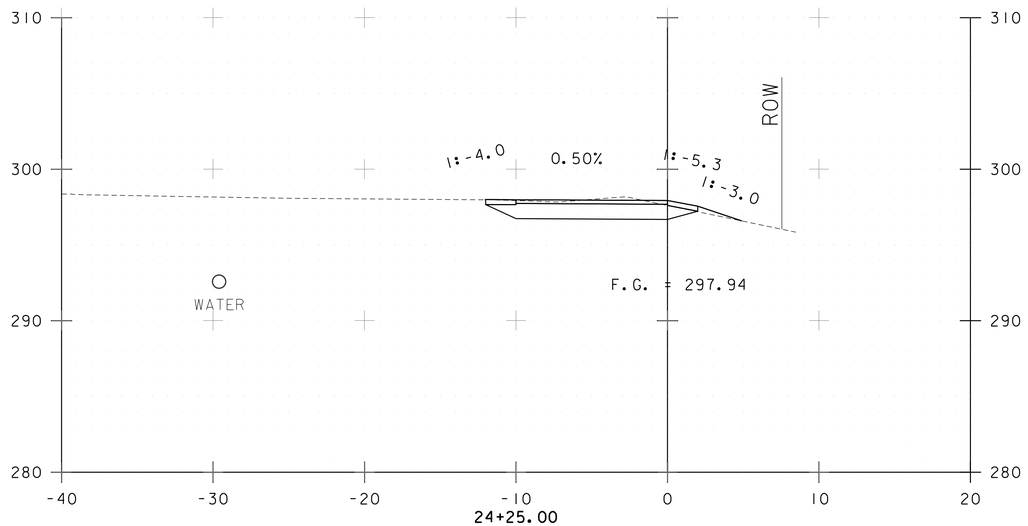


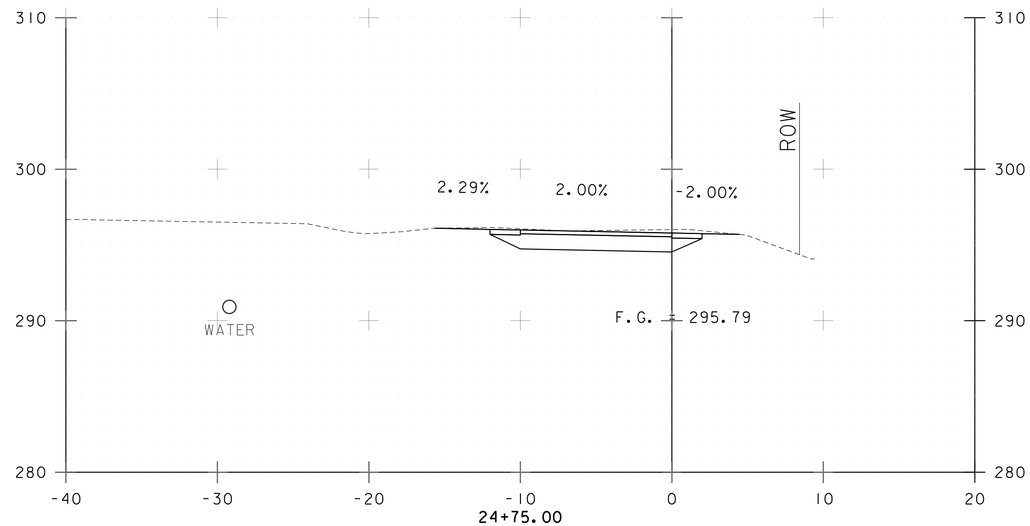
23+50.00

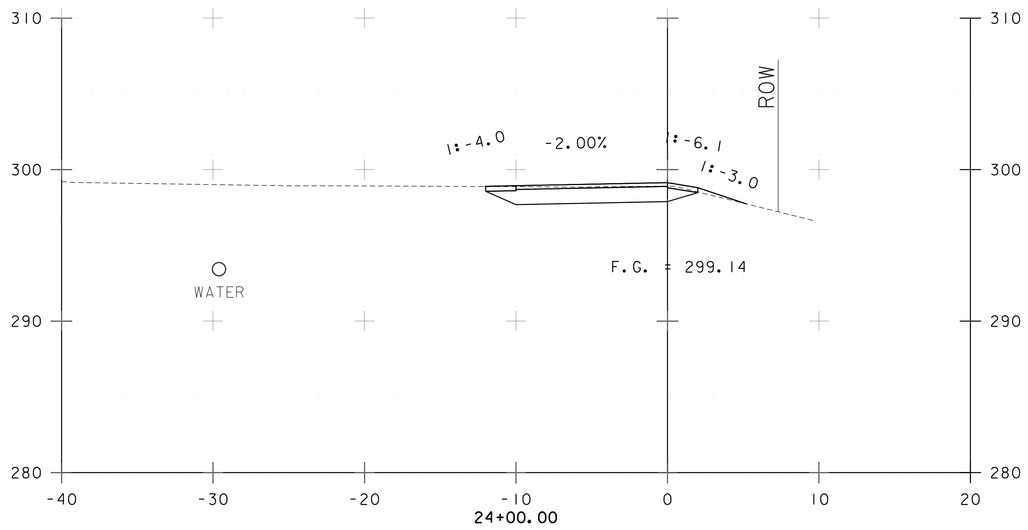
0 5 10
SCALE IN FEET

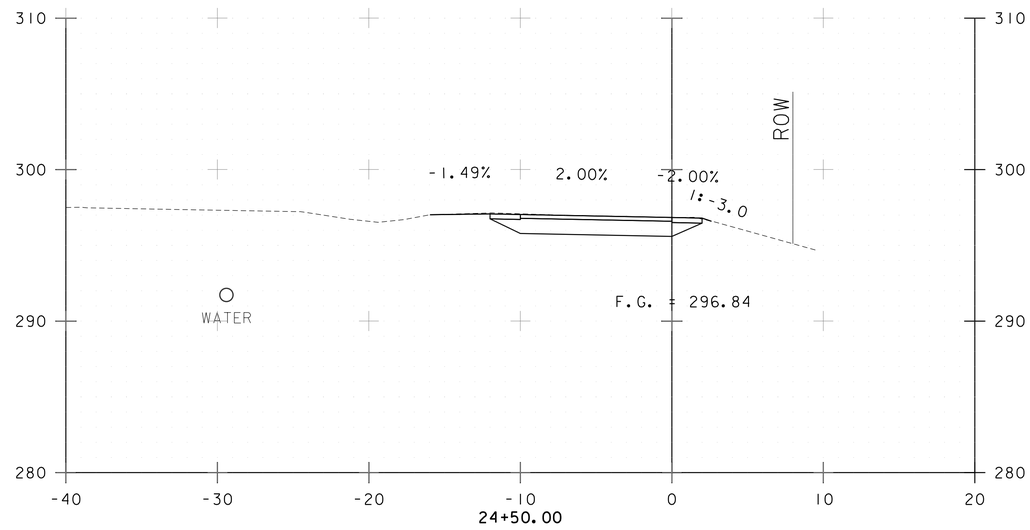
Stantec

PROJECT NAME: MANSFIELD AVE SIDEPATH	
PROJECT NUMBER: 179450026	
FILE NAME: 179450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 14	SHEET 35 OF 41





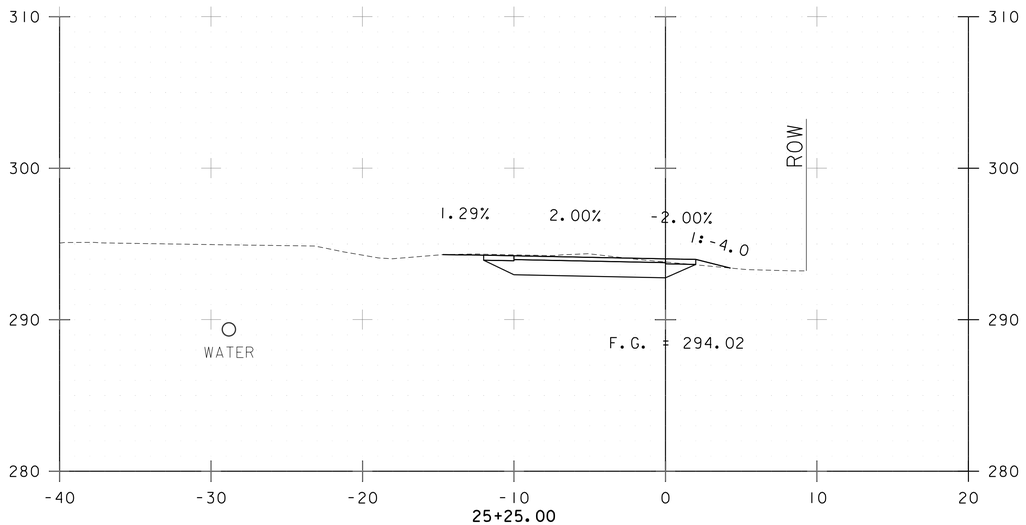




0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 15	SHEET 36 OF 41



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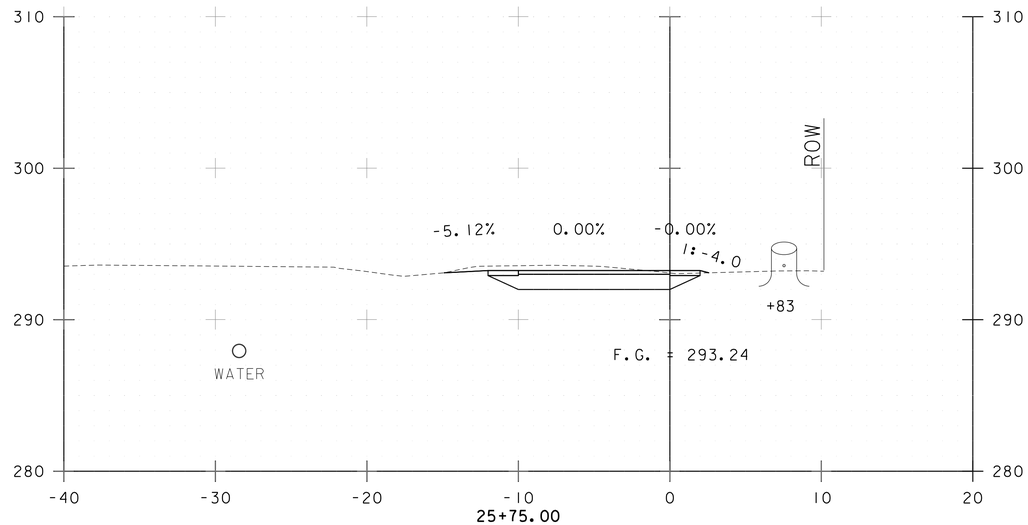
*SEE DRIVE
SECTION SHEETS



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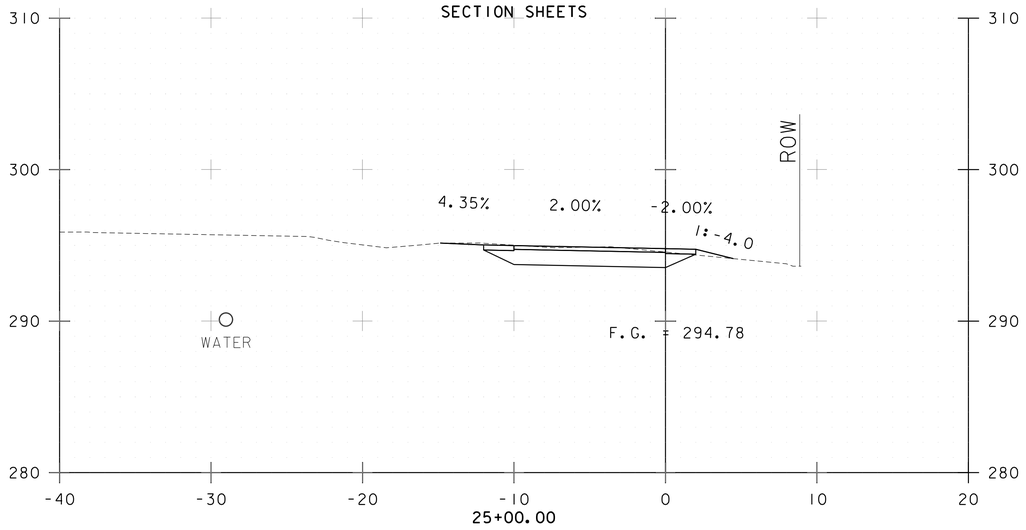

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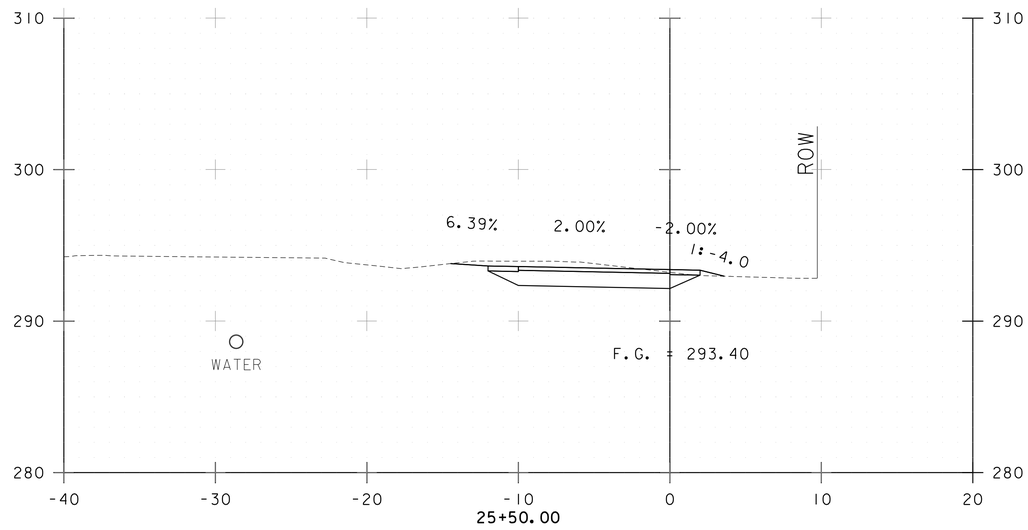
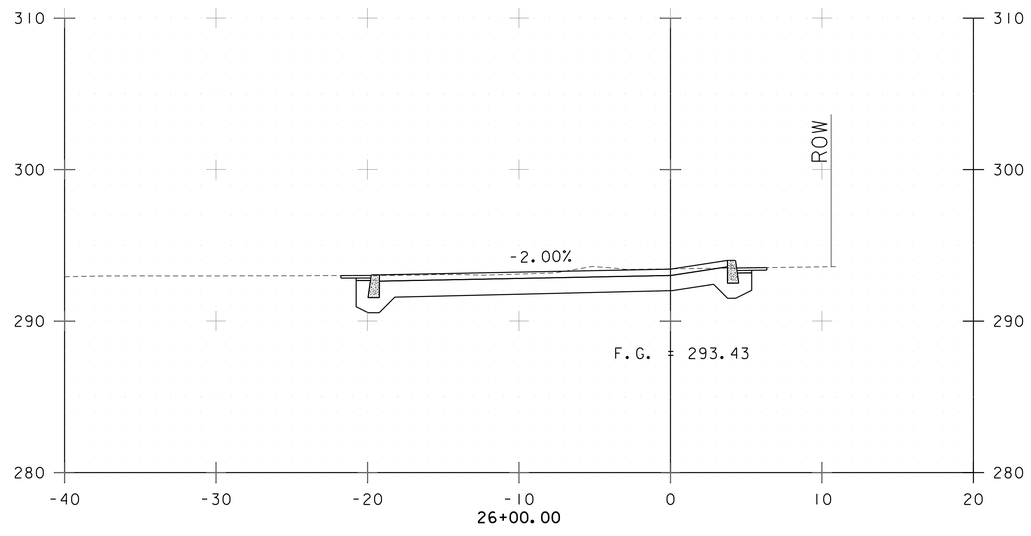


25+50.00

0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 16	SHEET 37 OF 41

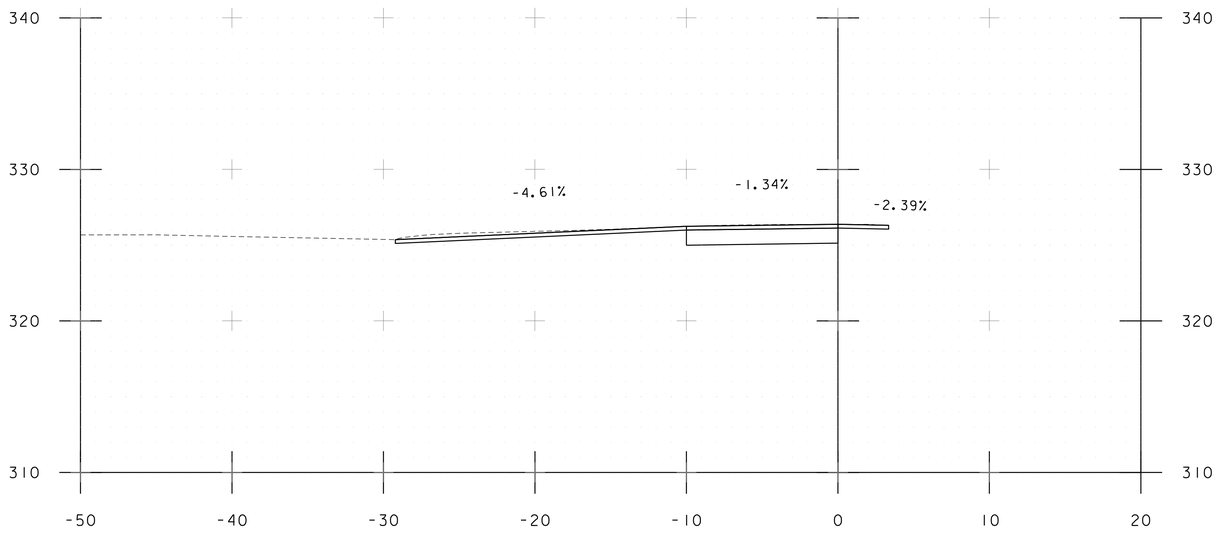


0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026

FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
CROSS SECTION SHEET 17	SHEET 38 OF 41



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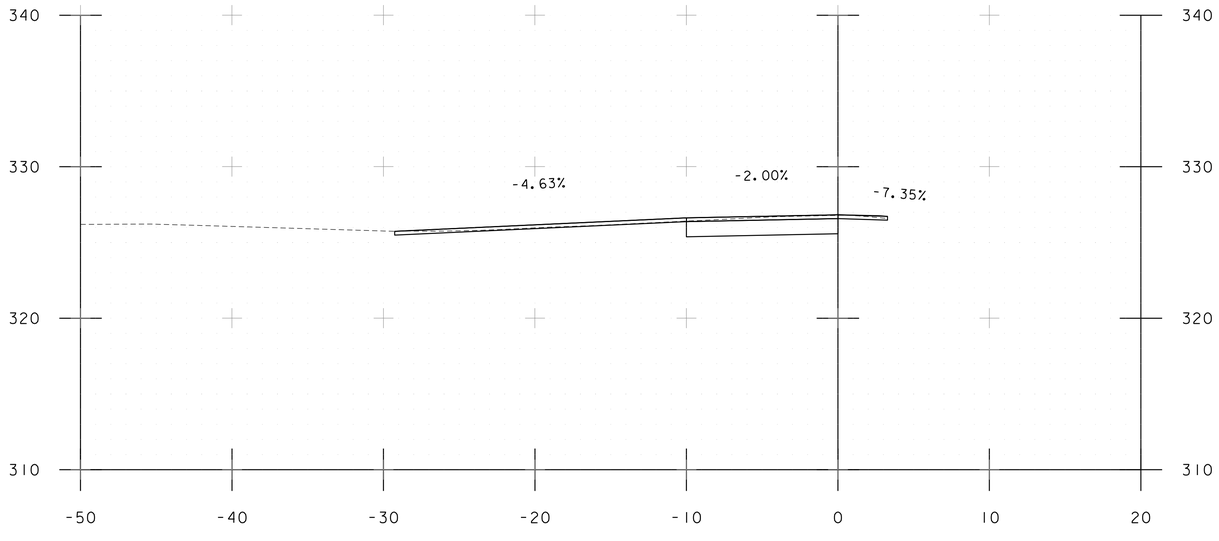

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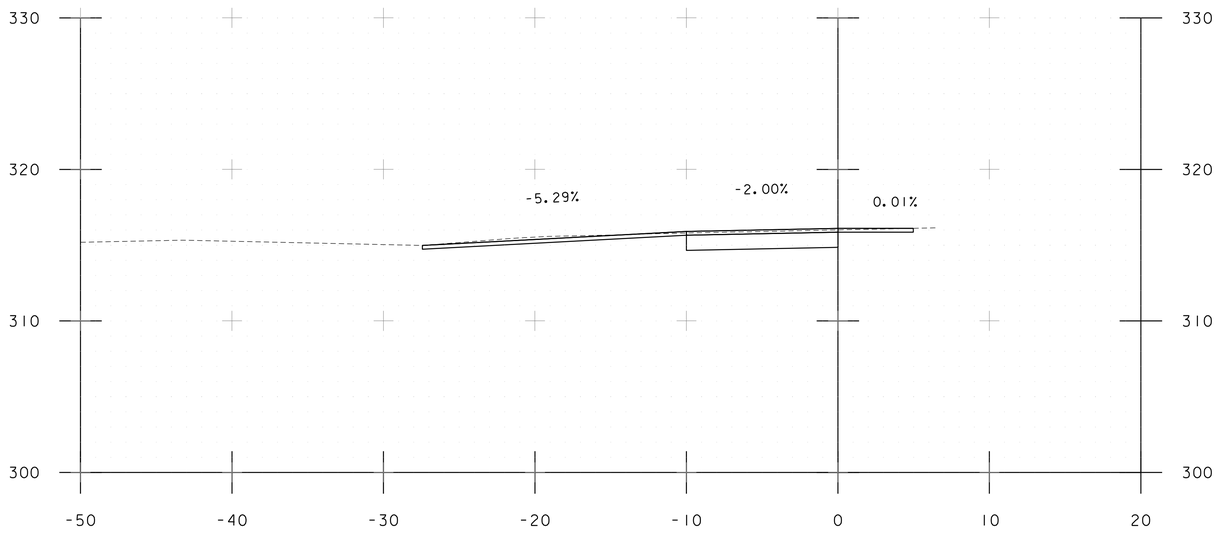
0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	I79450026
FILE NAME: I79450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
DRIVE SECTION SHEET 1	SHEET 39 OF 41



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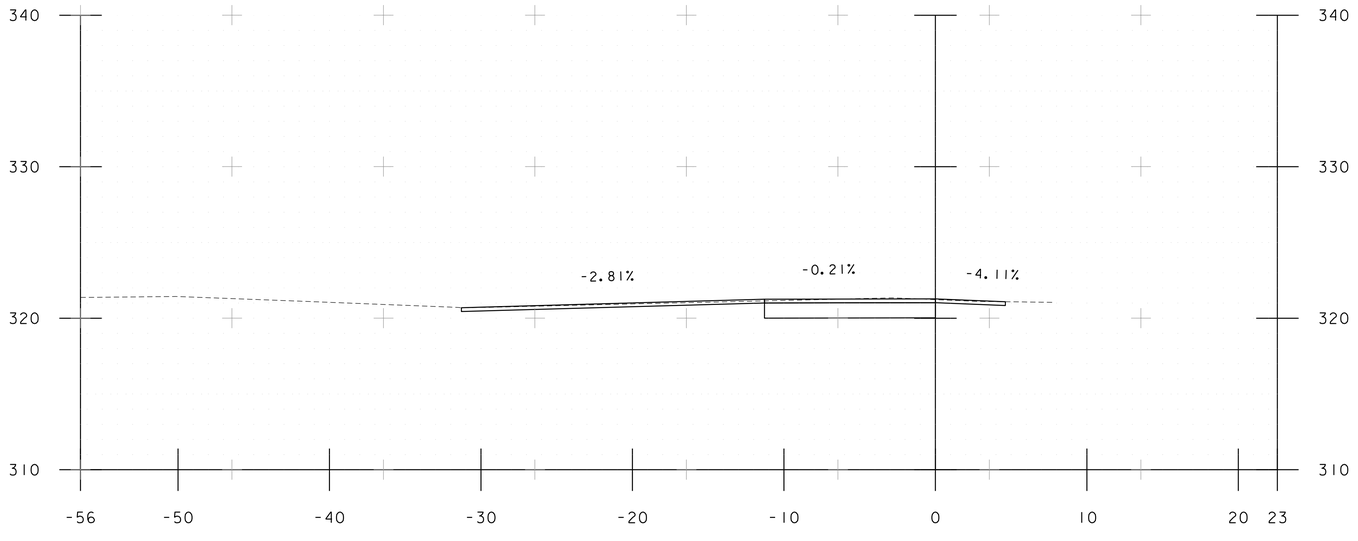

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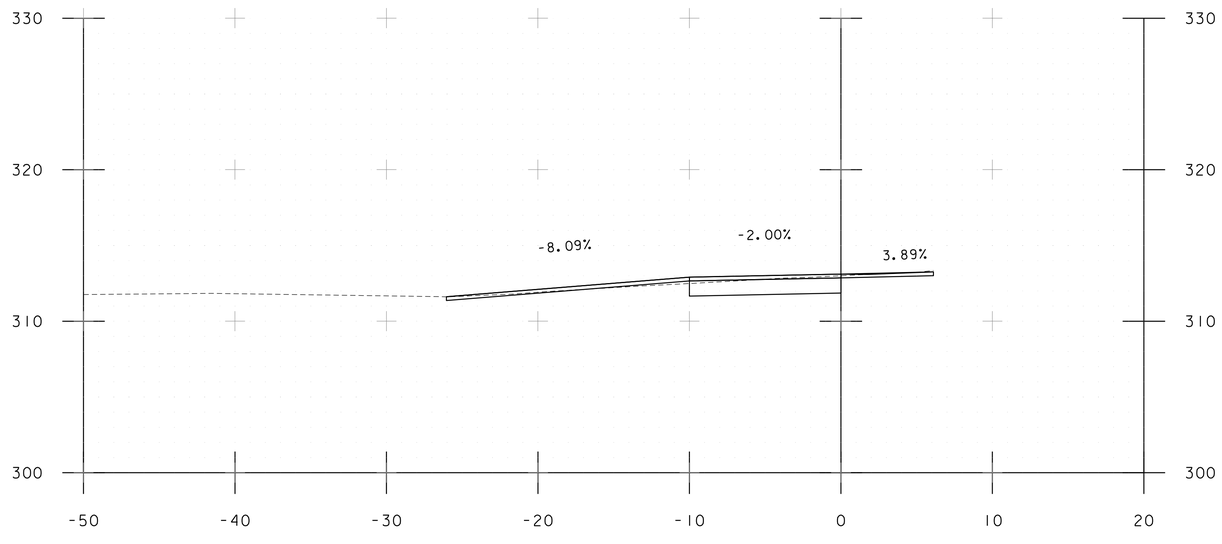
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
DRIVE SECTION SHEET 2	SHEET 40 OF 41



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0 5 10
SCALE IN FEET

Stantec

PROJECT NAME:	MANSFIELD AVE SIDEPATH
PROJECT NUMBER:	179450026
FILE NAME: 179450026xs.dgn	PLOT DATE: 2/3/2022
PROJECT LEADER: E. ALLING	DRAWN BY: C. PETERSON
DESIGNED BY: C. PETERSON	CHECKED BY: E. ALLING
DRIVE SECTION SHEET 3	SHEET 41 OF 41